

ViCHAAR

Aapki kalam se...

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New This Month

Masks

Mental Health

The rising awareness of mental health.

The Grand
Timeline

Journey so far

Preys of
Phantom

Get ready to face
your fears!

Eunoia 2.0

NEP

What is in store?



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Masks

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Beautiful works of art and photography included within the pages, among all other things...



“If you
want to
change
the
world,
pick up
your pen
and
write.”

Editor's Note

Dear Reader,

The year gone-by has been one of the most trying in the history of the world and in this melancholy, what has survived us with hope, are the arts, both verbal and visual. This issue of Vichaar is the amalgamation of such hopeful artforms from the treasure trove that are the students of IITRAM. Not only does this magazine showcase the colourful campus life of the institute but also the inherent creativeness of each and every person on campus. And before you roll your eyes and say, “Weren't engineers supposed to be non-creative?” Read on, dear reader for its as much yours as ours.

But wait, before you decide to move on to explore 80 pages of creativity, there's something you should know. Every single aspect of this edition, be it the content, graphics, artwork or photography, are completely original works by the students. Vichaar is testament to the fact that we as individuals can really come together and construct something wonderful, when encouraged and given the chance. And hence we would like to extend our heartfelt gratitude to our coordinator Dr. Meera Vasani, as well as the Institute authorities and management for giving us this chance to explore and create. We would also like to thank our senior, Prathamesh Bhat (batch of 2020), for his continuous guidance throughout this endeavour. And finally, we thank you, the students, for making Vichaar truly what it is... Aap ki kalam se!

And that's all. We won't make you wait any longer.
Happy Reading!

~ Team Vichaar

[PS: Do flip over to to meet the team...]

Our team is a mixed bag of young writers, designers and artists, who are responsible for weaving this year's issue of Vichaar. Meet the minds behind the development of this edition – the Editors and the Designers.

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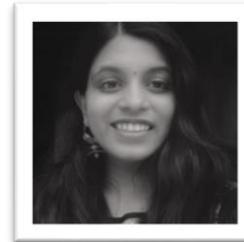
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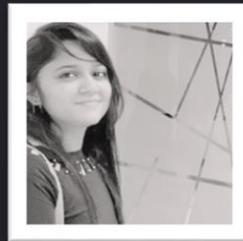
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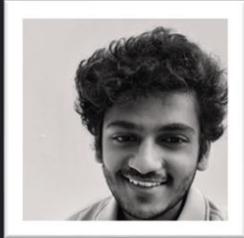


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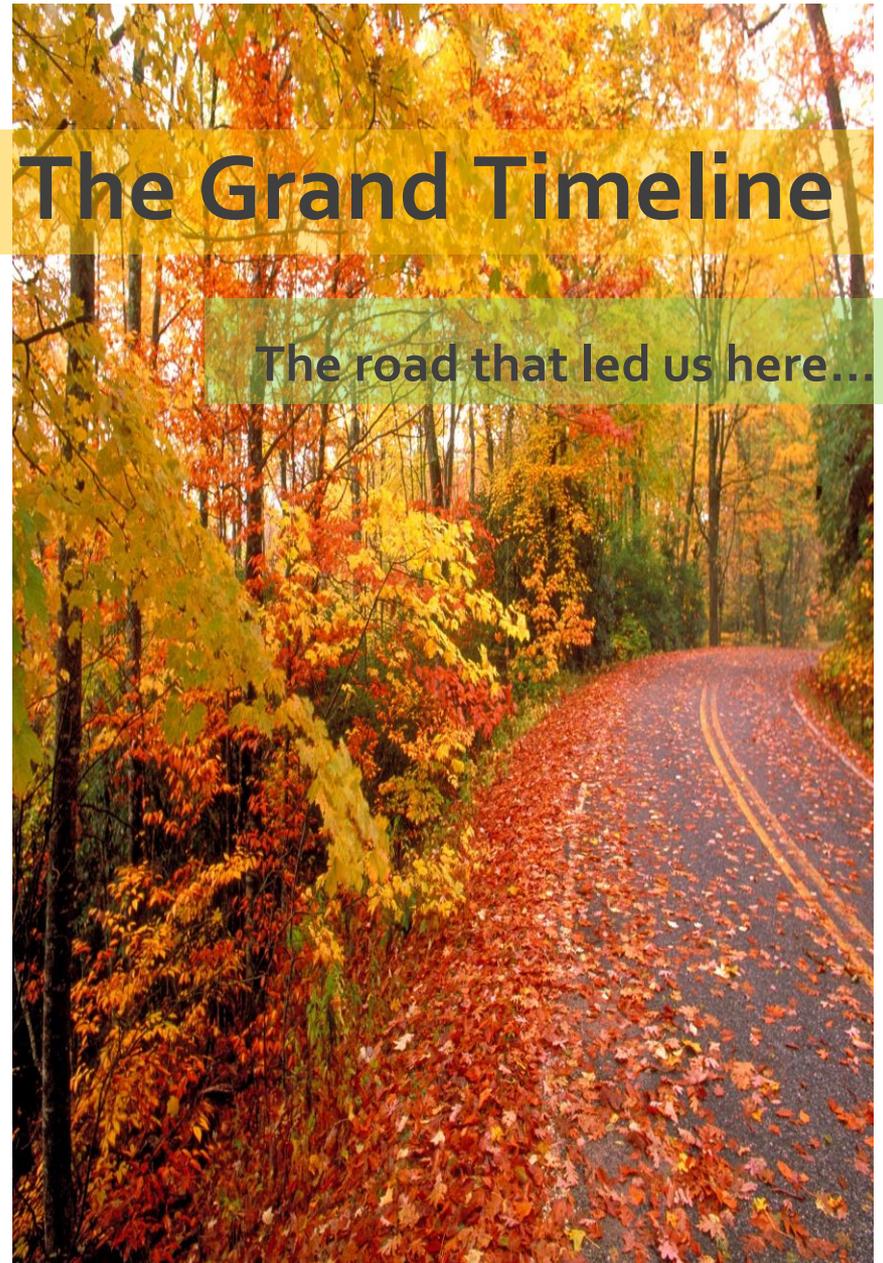
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The Grand Timeline

The road that led us here...





Before 2020

How Did We Get Here?

By: Harshini, Manu and Siddhant

How did we get here?
 In the reign of fear.
 Let's look back at the rear
 Fasten your belts, we are getting
 into gear
 14 Billion years ago- with a blare!
 The earth was just a burning
 sphere
 Before it cooled into layers/ to
 form layers-crust, mantel, core
 Man lived along with animals like
 bear
 In caves, hunted with spear
 Soon fire sparked into flashes -
 clear
 The wheel became dear
 Situation was dire
 Before electricity came near
 Changing our lived forever- the
 much-needed flare!

Life was easy without clur
 Before we became insincere
 & killings became the desire
 To grab land- acre by acre into an
 empire
 The world was afire
 Amidst this chaos, there was a
 country I admire
 The land of cultures, eventually
 got trapped in the snare
 It took a long time for the ruckus
 to
 disappear
 A new era of technology- went too
 severe
 Till a point the earth could
 further bear
 And then came this year
 2020

How did we get here?

Intriguing question, isn't it? How did we, humans, get where we are today? To really answer how we got here, let us take you to the dewy slopes of 13.7 billion years ago when the universe was created with a Big Bang, both literally and figuratively. The dust settled into stars, planets, solar systems and galaxies. For about the next 9 billion years, not a sign of our solar system. Soon the earth came to be, a smoking hot ball of molten rock. About another billion years later, the first signs of life emerged from the seas. Life slowly spread to the lands, developing into more complex and beautiful forms, till about 2 hundred thousand years ago, when Homo Sapiens came to be. From there, our development has been exponential and explosive. We went from uncivilized cave dwelling animals to the state we are in today, an immensely intelligent species trapped like flies in their own fancy nests. It is safe to say that it has been a wild ride, and we would like for you to take it with us. We humans, exceptionally talented, and intellectual organisms believe in living a comfortable and easy lifestyle. We invent and discover new ways to prevent hard work and make the task simpler. This trend began 10 million years ago when humans made the first tools from stones, woods, and bones for cutting, chopping, scraping, and hunting animals- followed by the discovery of fire around 2 million years ago, by striking hard mineral like pyrite and generating spark, to cook food that helped them to chew it easily, to protect themselves from cold weather and wild animals- the first boat was constructed from a hollowed tree trunk in around 10,000 BCE, to conveniently travel along the water bodies- the invention of wheels took place in 3500 BCE when early humans were fascinated by a rolling wood log, from then it was used to carry things and make transportation process easier; to the present day innumerable discoveries and inventions have taken place to make our work hassle-free.

In due course, we also realized that some of them were not as advantageous as they were supposed to be! While some could destroy the entire human race!



Now there was a time when we lived likewild animals, when we only lived for the day and didn't worry about tomorrow. When there was shelter only when nature graced us with one. However, as we became smarter, we started building our own roofs and walls, living in groups to ensure collective survival. Civilisations were born. Once survival was taken care of by the well-built shelters and collective strength of the civilization, our requirements exceeded the bare necessities and our horizon expanded beyond today, into the future. We started saving up for the coming winter or for the dry year that may or may not come. After the today and tomorrow became secured, we had more time on our hands, which we used for trying to find how the world came to be, to look for ways to make life better and safer than it is. In due course of time, we developed complex ideas of religion, philosophy and science. When science was not as developed, we resorted to believing in a higher power, giving birth to religions. Religious sentiment became a major factor that brought the people together. As civilizations grew bigger, the society became stratified. Success of an individual came to be defined by material wealth. Wealth accumulated in a certain stratum of society and the balance of power swayed towards that group. And thus, began the age of kingdoms and empires. Emperors aspired to expand their kingdom and force their religion on.

While on this quest, people began feeling the need for better equipment than the enemy, better medical care to save the lives of soldiers, better farming practices to increase the yield. This gave a boost to scientific development. We fell in a virtuous cycle. Yesterday's progress enabled for today's discovery, which in turn helped tomorrow's research. However, the more endowed part of the society openly oppressed the less fortunate. All this changed during the Renaissance, which was fueled by the growing discontent and awareness among the common people.

Inventions had become an intricate part of our lives. Each day was a novel experiment! We thrived through the times, up and down. But there was something waiting to change our lives forever- the discovery of electricity. Nothing had felt so powerful than the gush of energy at our fingertips. We became unstoppable. The upcoming century was a revolution in itself. The invention of electricity, a miracle that lightened our world also brought in a glimpse of our dark atrocities with it. Man had had the taste of power and he liked it. Necessities didn't define our boundaries anymore. We strived for more. War of currents was a changing point for all of us but not just in the field of science! Luxury had lured us into rapacity- washing machines, yachts, there is clearly no end to the list. We weren't just clever anymore. These new beings were wolfish. We became an irony. Revenge and ego had started digging our graves. We realized it a bit too late. The revolution got revolutionized and this time, it wasn't welcomed. Cruel times were waiting ahead

of us. Gore entered our lives. Vigour was at its peak. The end was a mere remnant. Don't you believe me? Look for yourself!

The Industrial Revolution that was already in motion was accelerated immensely by the discovery of electricity. As mass production became the order of the day, the demand for raw products rose sky high. To meet these demands empires became more vicious. European empires pillaged Asian and African countries for their resources, all the while competing between themselves. This competition later sparked wildfires in the form of the First and Second World Wars. As wealth accumulated with the empires, they developed a venomous ego. They started considering themselves above others in the world. This, essentially, was the birth of supremacism, which later reared its ugly head to show the world unimaginable horrors. To name a few, antisemitism (prejudice against the Jews) in the Nazi Germany. The Holocaust, courtesy of Adolf Hitler, claimed the life of over 6 million helpless and innocent Jews. And not just that, supremacism is rampant in the form of xenophobia and racism in many western countries even today.

Far from this chaos, a nation was flourishing on the southern grounds of Asia. A nation, started off with the principles of Santana Dharma

A nation, untouched by the atrocities of the era. India, popularly known as the 'Sone Ki Chidiya' back then was experiencing times of cultural confluences and economic boom. Along with complicated subjects like metaphysics and philosophy, people also

studied subjects of administration and economics at world renowned universities like Nalanda and Takshashila. Staring with simple stupas to magnificent temples, the entire country was adorned with art and architecture. In ancient India, politics was concerned with nothing but welfare. People were happy under the monarchs whose kingdoms followed policies of decentralization and division of labour. Christianity, Islam, Judaism and Zoroastrianism put down their roots on the world's most ancient civilization's southern and western coasts. Muslims from Central Asia also overran the northern plains of this second most highly diverse region after Africa in human genetics to form the Delhi Sultanate. Together, they helped form a nation truly secular in all senses. A home to eight religions and more than a thousand dialects, India has an incredible lineage of history. The festival of land is an icon of Unity.



when amber bars were rubbed against tanned skin, electricity was first observed.

Soon the value of gold fell to that of brass. Why? With just the perfect topography, biodiversity and natural resources, it attracted invaders from all corners of the world. And who could resist such an offer? Foreign people stormed in. They dug the grounds till they were fertile no more, exploited the people till they were alive no more, reformed the systems till they were consistent no more and altered the very existence till it was endangered. Then started the execution of their falsely stated diplomatic, development plans (for the nation). After many years of resistance, revolts, boycotts and massacres, the dark times came to an end, or atleast so it seemed. The consequences, in reality; we are facing them till date.



Then came 2020

2020 – a halt to this, showed us the mirror. Was it a boon in disguise?

“

Were we even
living?

”



Even after experiencing such suppressing times, Indians have never lost the touch of their culture, their ground. If anything, we rose to become the biggest democracy of the world. Today, we stand as a symbol of unity- unmoved by the storms of denial. There may be a few cracks, but they are the marks of valour, not of diffidence. We still stand strong with heads held up high.

Now lets fast forward to the recent times- the earth had already been marked with barbed wires, boundaries had been defined, evils had entered our lives in forms not visible to the naked eye; race and class had fogged our visions. Then started the race of technology. Everything changed. The change spread like a fire, setting ablaze anything and everything that came in its way. It was too rapid for the earth to bear. We were feeding on the nature like never before. The advancements were taking us over, minute after minute, second by second. Nothing was ever enough. Exploitation became the survival strategy. Everything became scheduled. Everything, now, had a price. Time was ours no more. Don't you believe me? Ask yourself. 'Live to eat, not eat to live' was the new reality. Everyone was running. But where? No one knew. We were indebted to our intelligence. Assets became liabilities. We were alive just to build a tomorrow. The essence of life was forgotten. Today lost itself to tomorrow. Sometimes I doubt, "Were we even living?"

It was still October 2019 when the audience were going crazy over *Joaquin Phoenix*, when in the movie *Joker*, he was uttering these very words,

“Is it just me, or is it getting crazier out there!”

People were flocking outside cinema halls, appreciating *Joaquin’s* portrayal of this fictitious and famous antagonist, but little did they know that within a span of a few months, it was, literally, going to be *“crazier out there”!*



Then Came 2020

- Rushabh, Harshini, Siddhant

An 11-year-old boy, after a long pause, told his Dad, *“Daddy, now I can’t sustain. Please, start the cooler. It’s like I’m sitting on a hot pan!”* The father, who agreed to his son’s frustration, immediately went to start the cooler; but suddenly someone was banging the door! Upon opening, they realized it was the Australian Military Personnel, asking them to evacuate their houses, because the bushfires were on their way there!

This Australian Bushfires, which were otherwise an annual routine, began at the end of 2019 in few coastal regions... But at the start of 2020, it was mayhem around! Australia was facing one of the worst faces that the nature has ever revealed. The harshest brunt was on the ecosystem and the animals living under Australian shade for thousands of years. What were the numbers, you ask? Around 1.2 billion animals lost their lives and around 27 million acres of land was burned to ashes! Who was to blame? God? or Us, the Humans? Many argued it was not completely us, but what mattered was that this time, we did play a part in this game; this game which ultimately led to these horrific bushfires! This was just the beginning and fear was already lurking beneath the hearts of people of what this year was going to bring more, but little did the ones who were proposing “everything will be fine” know back then that “this was just the trailer... A whole movie was on its way!”

Chinese people have been known to enjoy delicacies involving wildlife that

Around 1.2 billion animals lost their lives and around 27 million acres of land was burned to ashes!

we wouldn’t even dream of eating. Many wild animals are captured, not bred, which puts their palatability in question. There have been numerous small outbreaks of infections rising from such animals. The fateful corona pandemic originated similarly, when someone attempted eating a bat, which happened to be infected by a virus called SARS-CoV 2 (**Severe Acute Respiratory Syndrome – Corona Virus 2**). That was essentially the genesis of the COVID-19 pandemic, or so the scientists speculate.

“There have been about 29 million victims of COVID-19 and it has claimed about 9.25 lakh lives”

This pandemic led the whole world into an indefinite lockdown. As of September 13, 2020, there have been about 29 million victims of COVID-19 and it has claimed about 9.25 lakh lives, and the number does not seem to stop increasing. All major countries are in a desperate effort to look for a vaccine for this deadly disease. Economies have taken hits that no one has ever seen before.

However, the country of origin of this pandemic, China, seems to be handling the situation surprisingly well. The single most populous country in the world with over 1.5 billion people somehow managed to curb the pandemic with only 85,000 victims and just a touch above 3000 casualties. This led the world to wonder if the coronavirus actually came from a bat or is there more to it than meets the eye.

“Is there more to the Coronavirus pandemic than meets the eye?”

Mahatma Gandhi famously said, “An eye for an eye makes the whole world blind.”

But alas, this was not enough! Decades has passed since the two World Wars ended! Humans has been calm & tolerant enough for not marching towards the 3rd one, but this year just brought us to the brink of a 3rd World War! The US-Iran conflict just escalated to a new high, when a United States drone strike near Baghdad International Airport targeted & killed Iranian major general, *Qasem Soleimani!* People flooded the streets of Iran upon the killing of their general, and vowed of a retaliation. And they did! Furiously, Iran avenged the death of their major general by firing missiles at Iraqi bases, where American troops were housed! It felt like the time had stopped. The whole world was waiting for the next step, that the US might take!

Racism has been known to exist since time immemorial. Born from supremacism, it has been known to rear its ugly head time and again in the past. The human history is riddled with countless accounts of cruelty towards specific races, especially in the western society.

Born from supremacism, it has been known to rear its ugly head time and again throughout our history.

Come the 21st century, racism is a legal offence in most countries. However, the tendency to be prejudiced against a group of people is not dead. African Americans, Indians, Asians and almost every non-white-skinned race is a victim of racism in some way or the other. One such African American gentleman by the name of George Floyd happened to walk into a store with a counterfeit 20-dollar bill, on 25th May, 2020. In itself, it is not a felony to be in possession of counterfeit currency if the value is less than a thousand dollars. The store manager, however, called police officers on George. The police arrested George, who was seen to be surrendering willingly, on the account of resisting arrest. One of the officers laid him flat on the ground with his hands cuffed and rested his knee on his neck, suffocating him to death. An innocent individual, dead, for no conceivable reason, except for the rampant racism in the society.

This event sparked a wildfire of protests throughout the United States of America, which are still in progress to this day. These protests are known to be the cause of 19 more deaths and about 14,000 arrests throughout the country as of June 14, 2020 itself. The ongoing COVID pandemic did not help improve the condition. Many protests still continue to this day, sparking hope that some steps are taken to curb racism.

A Chinese proverb goes by “A good neighbour is a priceless treasure”, but alas, people seldom read their own books!

In one of the fictitious tales, *Socrates* was asked, “*Who’s your best friend?*” He enthusiastically answered, “*My neighbour!*” And when he was asked “*Who’s your worst enemy?*” He, again, enthusiastically answered, “*Told you... my neighbour!*”

NEIGHBOURS, the very first people we see when we open our doors, are an integral part of our lives. They share with us- times of joy and sadness alike. India has many neighbours- seven in total – which proves that we’re lucky, aren’t we? A Chinese proverb goes by “*A good neighbour is a priceless treasure*”, but alas, people seldom read their own books! Amidst the corona crisis, our largest neighbour, China waged a war against the nation killing off 20 soldiers at the border.

The incident strained years long edifice of the nations’ relations. Apart from this, both the nations stand without any architecture for the borderline and a broken trust with serious repercussions. Threatened at all fronts- nuclear, cyber, finance, territory etc, they have become each other’s greatest nightmares.

Another neighbour, that faced heightened tensions with us, was Nepal. A nation that shares such close linguistic, marital, religious and cultural ties at people-to-people level, jumped into the situation by accusing India of invasion, destabilizing its ‘already on the verge of collapsing’ government. We will always remember the respect given to us by the Nepalis, the *Gurkha* regiment being the prime example, but since lately, they created more chaos in an already chaotic situation. India has managed to be on good terms with its neighbours but now the path doesn’t seem to be clear. What we saw in 2020 was a clear picture of deceptions. How do we plan on not letting our silence come out as our weakness anymore? Any issues with a neighbour should be resolved as soon as possible, because *Atal Bihari Vajpayee*, the former Prime Minister of India, very famously said, “*You can change your friends but not neighbours.*”

“You can change your friends but not neighbours.”

During the lockdown, the whole world came to a halt. There is still no end to be seen to this lockdown. All sectors of the economy took a hit in this period. The education sector was no exception to this. When it seemed like there was no end to be seen to the lockdown, the authorities chose to adapt to the pandemic and tried getting the teaching learning process up and running again. This led to various changes in the way classes were conducted in the past. Classes came to be conducted in online meetings. Though a perfectly viable solution on paper, online classes come with their own limitations which soon started surfacing. From phony accounts joining meetings to create disturbance to poor student-teacher interaction, the online classes have proven to be a poor, fault ridden substitute to the previous system. Laboratory sessions have become but a memory. Apart from ongoing courses, the students who were seeking admissions have also found themselves in hot soup. Entrance exams were postponed by a ballpark of 6 months. However, on the brighter side, online courses have gathered impetus. Platforms like Coursera, edX, Udemy and such have become extremely relevant. Through all this chaos, the education sector is still powering through.

Though a perfectly viable solution on paper, online classes come with their own limitations which soon started surfacing.

Another positive thing that the world, especially India, observed that many metropolitan cities had their pollution levels significantly decreased due to the lockdown. How can one forget the various posts on social media claiming the sightings of Himalayan mountain range from Punjab's Jalandhar!

“The worst part of having a mental illness is people expect you to behave as if you don’t.”

Arthur Fleck in the movie *Joker*, wrote in one of his journals of “Jokes”, **“The worst part of having a mental illness is people expect you to behave as if you don’t.”**

This quote is true at multiple levels. People ignores the very fact that takes hundreds of lives each year!

What an irony it is, that we have a bandage to cure even a small scratch, but when it comes to the brain that is injured by multiple traumas, we simply shrug it away by calling it a ‘low day’! An event that brought these hidden traumas to life was the untimely demise of *Sushant Singh Rajput*. It unleashed the cracks of the walls we live within, the ones we have been plastering so far! Demons of the mind- powerhouse of construction and destruction simultaneously, depression and anxiety are gifts of our ever-changing lifestyle. In this desolate world, every fifth person, irrespective of age and gender, suffers from these traumas. Our negligence towards the fact that we need each other is responsible for most of our problems.

How do we plan to grow the fruits of our productivity without watering the roots of our well-being? Its high time we remove this taboo regarding mental health. To sustain through this world of competition, we should embrace the scars which truly define us. We should concentrate on things which make us happy and bring back the essence of life before it is too late. We must give same importance to mental health as physical health if anything, more. Let’s not slide this subject down the table. Let’s be a bit less expecting and way more accepting. Let’s be more just to ourselves. Even *Vincent Van Gogh*, the famous Dutch painter who died after years of mental illness, depression and poverty, said, **“Though, I am often in the depths of misery, there is still calmness, pure harmony and music inside me.”**

In the end,

“ If you expect the worst, you’ll never be disappointed”

describes the nine months of 2020 so far perfectly! This halt has been a mirror for all of us. These nine months reciprocated our 9 decades long oppression. Still a few months to go! Will world be a better place after this?



“

The future depends
on what we do in the
present.

”

Beyond 2020

By: Harshini & Manu

It is a well-versed fact that can't be defied even by the almighty. We talked about the past, we showed you the present, but how the timeline would be complete without a “perfect” future? The future is something we all are curious about – *How will be my life? Will I be happy? Will I be successful? Will I be famous? etc. etc. etc...* But the future may not always be as happening as one would have thought, there are some questions, if left unanswered in the present can lead to destruction in the future. If we do not remember the lesson our mistakes have taught us, then the future is apocalyptic.

Watching a sci-fi movie - set in the future, gives me Goosebumps - the flying cars, the robots around, the unbelievably advanced technology, and whatnot. It's entralling to visualize the tomorrow where the whole world will be developed, India will be a superpower, and there will be no sign of poverty, high rising buildings all around, the genetically strengthened humans, we will have homes on different planets across space, reaching from one place to other in seconds via teleportation, and all that we dreamt today.

But...but...but...we have gone too far, let's come back and look the future through the lens of the present. As mentioned, the unanswered questions, that we need to encounter, to fulfil the thought of the future we imagined about, and remember - *the answer lies within...*

2020, the eye-opener was a reality check for all of us. But how far have we taken it seriously? Humans forget the simplest of things the moment their surroundings become tolerant. The future largely depends on the amendments we make. Are we ready to make them?



Why not save what we have? Is this a fact so difficult to address/ take into consideration? The lockdown has given nature the time to rejuvenate itself. If we even reduce our needs by 10%, the earth will give us time 10 times for our survival. Isn't this a deal fair enough? Let's not slide the issue this time and think about it.

The future largely depends on the amendments we make. Are we ready to make them?

For instance, the Australian bushfires. After facing such a disaster what did we do to save the Californian jungles? If acres on fire aren't able to stop us, what will?

If we don't stop now, we will destabilize the earth's atmosphere nothing like the stable 12,000 ice ages but a burning bowl of breathing fire that would disrupt all global, geographical, political, social and agricultural systems. The pace of change between the eras has increased tremendously. If it changes before suitable variations on the earth are made, nothing will survive. We will lose the only planet we know to have life. What do we do? Find another planet and exploit it for our benefit. The speed of our greed has surpassed our chances of survival on this planet. 2036 is the limit for us. We will die before we reach the closet planet in vicinity if this ignorance towards earth

? What if the earth is infested with yet another pandemic as stated by the WHO in its recent interviews? Do we find ourselves ready to take it? have we learnt our lessons from this pandemic. No, it seems we haven't! Why, you ask? China celebrated its national annual dog festival. The pandemic didn't stop it. Lockdown hasn't stopped cruelty against animals.



We are still polluting our oceans, seas, grasslands choking millions of fishes, cattle ultimately severing existence of ecosystems on the earth. Even the death of a million people across isn't effective enough to melt our merciless souls. Why are we digging a grave for ourselves? Every generation had made changes to suit the pandemic. Why not us? Why are people not taking masks seriously? This is the time we can really utilize to immune ourselves to fight whatever comes next. Are we doing that?

? The death of Sushant Singh Rajput stirred a storm regarding mental health, an issue overlooked by most of us. The hectic lifestyle has brought with it a series of problems. With stress, tension and anxiety becoming a normal part of our lifestyle, mental illness is taking a troll over the people. Virtually connected, physically abandoned animals are facing complex issues with heavy repercussions. Till today we were denying the effects our lifestyle was having on us. The lockdown escalated things and the untimely demise left us dumbstruck. The shock is something we should not let go in vain. We should remember him and not let this unfortunate event go futile. It is high time humanity returns to its grounds, save us from the cruel hands of our imagination. Just like any other sickness, mental illness should be considered a priority. Along with physical posture, even our mental posture should remain balanced. So, are we going to acknowledge this fact or letting our egos get in between our health and die a painful death? A peaceful mind is what we all wish to survive the future. The more we delay, the more we are at loss. The earlier, the better. Also, why are humans making a big deal out of it? why are we not able to fact that we need others for our survival. Symbiosis, a long-forgotten word needs to be revived once again!

? Are we at the brink of the Third World War? What if you wake up one morning from the sounds explosion of bombs, firing of guns, and sirens all around? But why would this happen? There have been speculations about the World War III for decades, we have been lucky to avoid it since 1960s when the cold war between USA and Russia started. Too far or too soon, nobody can deny the possibilities. The fight for resources or over any other issue, will only lead to destruction. Maybe, it would not be fought by soldiers, it could be a cyber war, a satellite war, a robot war or whatsoever, and it would be something that could take us centuries to recover.

? Death or Murder, whatever you say, of George Floyd, has sparked the racism debate again! *Ae tu toh kitna kaala/kaali hai! Tu kisi ko andhere mai dikhta bhi hai? Oye chikane! Ae Chinese! Abe kauwe! Ae kalue!...* These all are the comments you must have gone through or you yourself have sledged someone. But will this ever end? Will the human ever be kind to the other human - irrespective of his/her colour, nationality, religion, cast, creed, etc.? Will we ever be able to conquer and extend the limits of our narrow minds? If the answer is NO! Then it is better to talk about the future without humans.

? The world has moved out of the monarch period, but the expansionist ideology hasn't

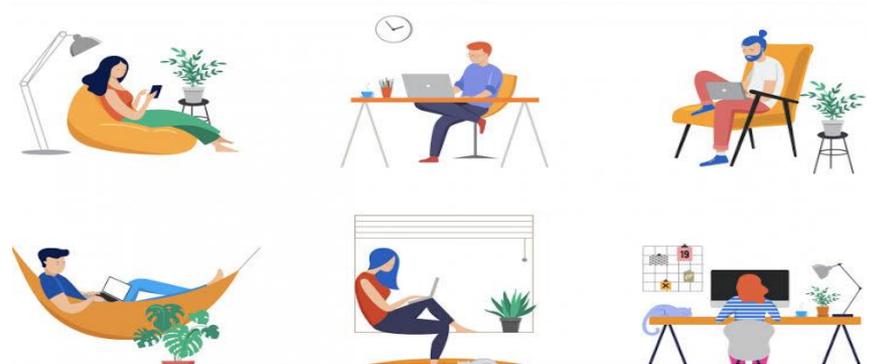
vanished yet! *Saam-daam-dand-bhed* (By hook or by crook), leaving no stone unturned to capture a piece of land, that's even not yours, is now being used as a strategy to create

panic a situation, and is clearly visible by the spats between India and China. But, India-China, India-Pakistan, are some examples we are more familiar with, but you can find more paradigms around the world. Is this the way we will lead ourselves to a peaceful tomorrow? Are we going back in time and following the dogma of – more land – more power? Is this muscle-flexing leading to an unhealthy competition?

? Education matched itself with this pandemic. The online transition was unexpected. This was surely remarkable in itself. This pandemic diversified education in many ways. More accessible than ever, education is now made flexible to suit everyone. But is it worth? Of the many things that the pandemic has taught us, the most significant one is the value of physical world. The pure sense of education, the environment of our schools and the scolds of our teachers- we are missing it all!

What can we do now? People are understanding the importance and taking up the right steps for optimized results. Today, education is equipped for everything that will come to it. Education is likely to undergo a lot of changes. The academic years will shift, syllabus will be trimmed, hours will be increased and what not. But education won't stop. This is a milestone for all of us. We didn't let the rights of our future citizens get affected due to this pandemic. But what if we take the wrong steps and instead, stake their existence?

There are more '?' that we need to answer, but our present is surrounded around these seven. It is the time we choose between what is right and what is easy. There are many variable futures. Only one is bright. It has us together as one. We have to count our chances and act smart. Only we can decide what to make out of our possibilities. Do we want to watch a sci-fi set or a burning ball of fire for a future? You think about it, we are leaving you with a question, with an open-ending.





**What's your version of the future?
What do you want beyond 2020 to look like?**



PREAMBLE OF THE INDIAN CONSTITUTION

-Pranshu & Jash



WE, THE PEOPLE OF INDIA,

Imagine a beautifully written book without an introduction or preface or an index, it would create an ambiguity in the mind of reader who would pick up that book for the first time. Similarly, Preamble to a Constitution defines the fundamental values, aim and objectives on which the Constitution is based.

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a **SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC** and to secure to all its citizens:
JUSTICE, social, economic and political;
LIBERTY of thought, expression, belief, faith and worship;
EQUALITY of status and of opportunity and to promote among them all **FRATERNITY** assuring the dignity of the individual and the unity and integrity of the Nation;
IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949, do **HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION**

The Constituent Assembly debated the Preamble on 17th October 1949. The debates around the Preamble revolved around the name of India and inclusion of 'God' and 'Gandhi'. The enacting words, "We, the people of India ... In our constituent assembly ... Hereby adopt, enact and give to ourselves this constitution" signifies the democratic principle that the power is ultimately rested in the hands of people. Now the question arises in our mind that why we need Preamble, what is the significance of it?

The Preamble embodies the basic philosophy and fundamental values-political, moral and religious- on which the Constitution is based. Pandit Thakur Das Bhargava, member of the constituent assembly said -" The Preamble is the most precious part of the Constitution. It is the soul of the Constitution. It is a key to the Constitution."

Being soul of the Constitution, still there were some controversies, whether it is a part of the Constitution or not.



Even our Apex court specifically opined that preamble is not a part of the constitution in the *Berubari union case (1960)*. But in *Keshavananda Bharati case (1973)*, the Supreme Court rejected the earlier opinion and held that Preamble is a

part of the Constitution. Article 368 of Indian Constitution gives power to amend the Constitution of India.

Unlike the Constitution, the Preamble has been amended only once so far, in 1976, by the 42nd Constitutional Amendment Act, which has added three new words-Socialist, Secular and integrity-to the Preamble. To this the then prime minister, Indira Gandhi, said, 'we have always said that we have our own brand of socialism, just nationalisation is not our type of socialism.'

The edifice of our constitution is based upon the basic elements mentioned in the preamble. If any of these elements are removed, the structure will not survive and it will not be the same Constitution or it cannot maintain its identity, thus the preamble is of extreme importance and the Constitution should be read and interpreted in the light of the grand and noble vision expressed in the Preamble.

*"People sometimes forget the sword's there...
And in the past 60 years, it's become rusty."*



A Case for Contempt...

-By Rushabh Sagara & Jash Rana

Very few people understood the metaphorical meaning when the veteran actor Irrfan Khan, in one of his hard-hitting films, *Talvar*, points out, referring to the sword of the figure of Lady Justice, "People sometimes forget the sword's there..."

And in the past 60 years, it's become rusty." Nowadays, the role of the Supreme Court of India, is a lot under question. An Institution that was supposed to be the flagbearer of Justice, it is argued by some, had lost its charm somewhere.

This allegation was in public discourse this time, when the Supreme Court of India held lawyer-activist Prashant Bhushan guilty of Contempt of Court, for his comments on social media, targeting the current Chief Justice of India.

But many do ask, "What is this 'contempt' of Court? And what is right or wrong with it?" So hold on, you're in for a treat!

The term Contempt of Court can be easily understood as when we are disrespectful or disobedience towards the court of law which means that we, willfully, fail to obey the court order or disrespect the legal authorities, then the Judge, either of the Supreme Court or High Court, has the right, under the Articles 129 and 215 of the Constitution of India, to impose sanctions such as fines or can send the person to jail for a certain period of time if he is found guilty of Contempt of Court.

In India, Contempt of Court can be described in two types:

Civil Contempt: It stems not from something someone does during a trial, but for failing to adhere to a court order, resulting in losses to another party.

Criminal Contempt: Criminal contempt stems from actions an individual takes while in the courtroom that the judge does not appreciate, such as disrupting a trial, yelling at the judge, or refusing to testify. This is when the judge can order that the person be held in criminal contempt of court.



“

The Judge,
Magistrate or any
other person who is
acting judicially can
also be contempt for
their actions.

”

The Judge, Magistrate or any other person who is acting judicially can also be contempt for their actions.

You may be asking, “What is the issue, then?”

Issue is that this stringent law limits two of the most important fundamental rights of the citizens, namely, the Right to personal liberty and the Right to freedom of expression.

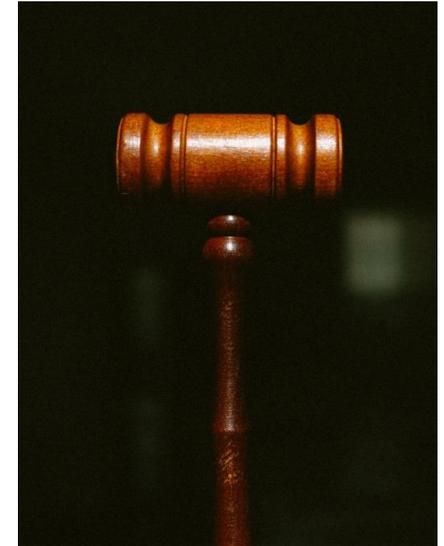
Arguments of those against it:

- Hindrance to Civil Liberties: Even the former Judge of Supreme Court, V. R. Krishna Iyer, famously called the law of Contempt as “having a vague and wandering jurisdiction, with uncertain boundaries; contempt law, regardless of the public good, may unwittingly trample upon civil liberties”.
- Never-ending scope of Contempt: Definition of Criminal Contempt is just too wide, and can easily be invoked!

Arguments of those favoring it:

- Affecting the Reputation of the Chief Court: The Supreme Court of India is the highest authority to serve Justice, hence it is argued that one should not accept those elements which undermines its impact & functioning.
- Enough Safeguards: Many argues that there are adequate safeguards built into the Contempt of Court Act of 1971, which outlines the procedure of investigation and punishment for contempt. Hence, it is argued that Court will not prosecute all the cases as Contempt.

The debate just goes on & on...
So, what do you think? Do we
need to do away with this
controversial law or should we
upheld it in order to safeguard
our highest court? The ball is in
your court now...



Order! Order!

by- Pranshu Soni



“This court finds this PIL in the interest of public welfare and thus keeping in mind principle of equity, justice and good conscience give its judgment of case Visakha vs State of Rajasthan in the favor of Vishaka.”

Frustrated by the criminal justice system’s inability to provide tangible remedies and to restore the dignity of the victim, Naina Kapur, a lawyer who had attended Bhanwari Devi’s criminal trial, decided to initiate a PIL case action in the Supreme Court to challenge sexual harassment in the workplace. The case has thus been described as “path-breaking”, “one of the most powerful legacies” of PIL, and a “trendsetter” that “created a revolution”.

Now the important questions are:

What is public interest litigation? Why it is important? How one can file a PIL case, etc.

So, grab your diving mask and let’s jump into the sea of legality.

The concept of PIL originated and developed in the USA in the 1960s. In India, the PIL is a product of the judicial activism role of the Supreme Court. Justice P.N.Bhagwati and Justice Krishna Iyer were the pioneers of the concept of PIL in India. The introduction of PIL in India was facilitated by the relaxation of the traditional rule of ‘*Locus standi*’. The PIL is an exception to this traditional rule. Under the PIL, any public-spirited person or a social organization can move the Court for the enforcement of the rights of any person or group of persons.

The real Purposes of PIL are:

- 1.Vindication of the rule of law,
- 2.Facilitating effective access to justice, and
- 3.Meaningful realization of the fundamental rights.

Now this is getting confusing, what is that where two litigating parties making claims seeking relief against the other and that other opposing such claim or resisting such relief.



PIL

The thing is PIL brought before court not for the purpose of enforcing the right of one individual against another as happens in the case of ordinary litigation. PIL demands that violation of Constitutional and legal rights of large numbers of people should not go unnoticed and unredressed.

In 1988, the Supreme Court formulated a set of guidelines to be followed for entertaining letters or petitions received by it as PIL. These guidelines were modified in 1998 and 2003.

There are certain principles also evolved by the Supreme court in regard to PIL one of them is “whenever injustice is meted out to a large number of people, the court will not hesitate to step in to invoke articles 14 and 21 of the Constitution of India as well as the international conventions on human rights which provide for a reasonable and fair trial.” there are total 10+ principles which are the backbone of public interest litigations.

But in recent times there have been increasingly instances of abuse of PIL, in this context the Supreme Court observed “PIL is not a pill or a panacea for all wrongs. It was essentially meant to protect basic human rights of the weak and the disadvantaged. There is a need to re-emphasize the parameters within which PIL can be resorted to by a petitioner and entertained by the court.

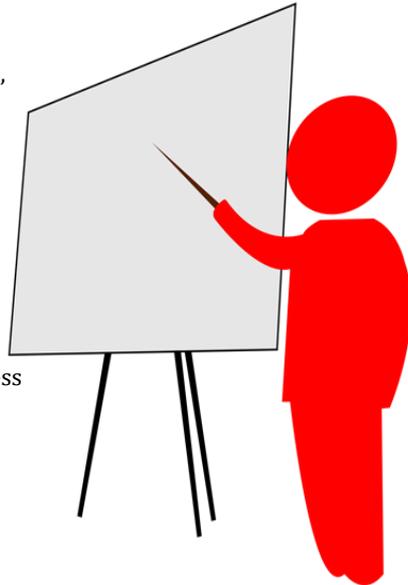
The PIL has now come to occupy an important field in the administration of law, and it is our duty that it should not become ‘publicity interest litigation’ or ‘private interest litigation’.

~~‘Publicity Interest Litigation’ or~~
~~‘Private Interest Litigation’.~~
Public Interest Litigation. ✓

Teachers

By: Mudra Patel

Teachers Earthly version of God,
Made by God, Harder than stone, but soft
by heart,
Though difficult to follow them,
Are good for health,
Calm & passionate towards their job,
Calm answers to eager questions,
Point of view changers,
compass to lost & life jackets to drown,
Bitter to sweeter & sweeter to bitter,
as time flows for different frames,
Selfless servers,
Always servers,
Preachers to many,
Guide to many,
Inspiration to many,
Friend to many Authors of many success
stories,
Here by Saluting Soldiers on border,
Farmers on field,
Teachers at school,
Are essential, vital & important...
Torch bearers,
leaders, supporters are they,
Best creation of world are they,
Not for money but for love,
For their scolds & lesson we remember
them None of them are forgettable
Remember them & just Remember them...



Art by Harshini

The Broken Bit

- Harshini Kolte

A million faces to efface
The anxieties I encase
To sustain through this race
Behind smiles that are braced
And a skin of gorgeous glaze.

Also, this dress with laces
Is just one of those staircases
Laid to cover the traces
Of the mangled pieces
No different than my shoelaces.

Decades have passed, now it is
impossible to retrace
The glimpse that got misplaced
In this whirlpool of interface
And I am still finding that
displaced
Face, that cannot be replaced
Yes! The same broken bit of the
vase
I continue to chase.



By: Rushabh and Divyansh

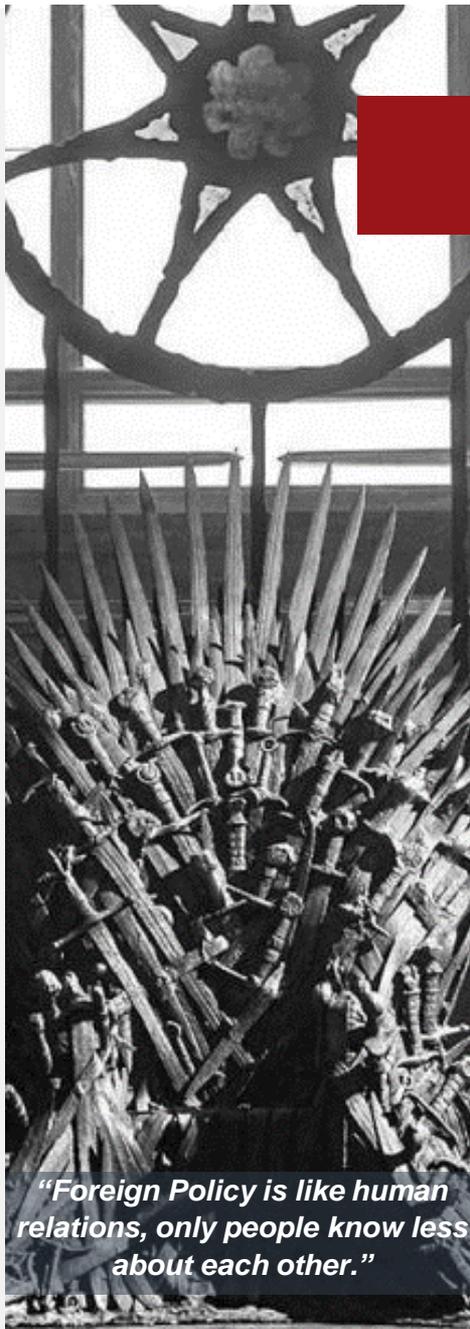
Many ignorant people do consider “Foreign Policy” as something which affects just those rich ones who wakes up in Delhi, have their breakfast in Manhattan, lunch in Tokyo & dinner in Paris! But is it so? The world out there is full of opportunities and threats, and every nation wants to pounce upon the benefits that this 21st century has to offer. To put it another way, the food we grow and eat, the air we breathe and the quality of our lives are increasingly fluctuated by what happens beyond our borders! Hence, people need to understand that a country’s foreign policy is not as “foreign” as it seems.

If we talk about India, its foreign policy had been a roller coaster ride and had its own share of sweet and bitter grapes! And keeping in mind, the current turbulences that our nation is facing at the international level, let’s dive into how we used to deal with the neighbours, and how we’re dealing now...

The first phase (1947-62):

The Tug of War

India got independence in 1947, this was the time when the world was being stretched into a bipolar world, wherein one corner there was the USA and USSR in the other. But India resisted due to the fact that it wasn’t here to take sides but to build as a nation.



“Foreign Policy is like human relations, only people know less about each other.”

Evolution of India’s Foreign Policy

A GAME OF THRONES

stretched into a bipolar world, wherein one corner there was the USA and USSR in the other. But India resisted due to the fact that it wasn’t here to take sides but to build as a nation. India was in the first few nations to be decolonised, so it led Asiatic and African nations to mark a rise of a third front which was not aligned towards any of the two superpowers.

This movement faced some serious damage after the Indo-Sino war. And this war ended the first stage of optimistic non – alignment period.

The second phase (1962-71):

Friend and Foe

After the Sino-Indian conflict in 1962, India made some hard choices on the matters of security and political issues. India also faced external pressure on Kashmir from the US and UK. Though in the Tashkent Treaty, India and Pakistan agreed to withdraw all armed forces to pre-war positions, to restore diplomatic relations; and to discuss economic, refugee, and other questions. But there was no war pact or any law regarding Pakistan’s aggression in Kashmir. Looking at all of these scenarios, India found a friend in USSR (now, Russia).

The third phase (1971-91):

The Hard Times

India successfully used Military power in 1971’s Bangladesh Liberation war, liberating Bangladesh in India-Pakistan war. But India was threatened with a new axis in Asia as China-US-Pakistan, which threatened India as a regional power. USA’s sanctions on conducting a peaceful nuclear explosion test in 1974 (Pokhran 1), the collapse of USSR and the 1991 economic crisis forced India to check its foreign policy. This was the time when India was struggling hard, but the toughest steel is forged in the hottest fire!

The fourth phase (1991-98):

Guarding the Autonomy

The USA went on to become the only superpower, leading to a Unipolar world. Now, India reached out to various nations like the USA, Israel and the ASEAN nations more diligently, and at the same time, guarding its own interests (Pokhran 2, 1998).

The fifth phase (1998-2013):

The Art of Balancing

Under this phase, India became one of the fastest-growing economies along with China. By striking balance with countries of both the ends of the spectrum, ranging from the nuclear deal with the USA to trade relations with China to deepening its ties with Russia, India showed the world its mettle.

The sixth phase (2013-2020):

One among Many

Here, India became one of the poles of the increasingly multi-polar world. Its traditional stance of Non-Alignment turned into Multi-Alignment. India's increasing global importance, its various policies of the extended neighborhood (Act East Policy) and its emphasis on the Indian Ocean Region (IOR), had turned India into one of the most important nations in the current World.

However, the year of 2020, was just knocking the door! The Coronavirus Pandemic, China-US trade War and the latest India-China standoff had again put forth a challenge for Indian Diplomacy. How India will emerge out from this strangling situation is to be seen, 'coz only time will tell where this tale goes next...

"You can choose your friends... but you can't choose your neighbors."



"You can choose your friends... but you can't choose your neighbours."



There is no pattern as to how the person behaves while not in a good place. There are two known ways to know so, firstly is by observing and secondly is by intuition. When one is in not a good place, one starts behaving abruptly, they stop texting or calling like they often did. If they are a social butterfly, their social presence will decrease exponentially. They might seem lost in their own thoughts while in a room full of a thousand thoughts. They might stop doing the things they love the most like singing, sketching, playing or writing. The second way is intuition. People in a bad place emit bad vibes and we can almost feel it every time. These bad vibes make them distant from their friends or family making them alone. We can feel these vibes and can conclude that the person might not be in a good place. These all observations are based on how well we know the person and if this doesn't seem very promising then there is never a harm in asking them how they are feeling. They will tell you or they might not but they will feel cared, which is important. While going through rough and bad days, we are grateful to have someone beside us and there for us, our Ironmen, to support and take care. But at times we get distant and are left alone. We create a boundary around us, which no one can cross – and the ones who do get hurt in return. We break and we feel like there is no one to hold us together. We fall and we feel like there is no one to support us. We feel like our parents won't understand and our friends are just too busy for us. It might also be that our friends themselves would be going through rough days and we don't want to add to their miseries, because we care. Gradually it becomes our comfort zone, being alone feels comfortable and we feel like no one cares and accept that we are not lovable.

By: Priyam, Kanksha, Rushil, Ipsita, Bhumika

To reiterate Thanos, pain and suffering are inevitable. It is not unknown to all of us that everyone has gone through days when we had reached a rough patch or had hit rock bottom. We have gone through it and even seen our closed ones, especially friends, go through it. Some encounter it in teen age, some in adulthood, some in old age and some even in childhood. The truth is, there really isn't a specific age or time at which one hits a low. It is almost notorious for coming unannounced and also sometimes for hitting us at moments least expected.

Emotional pain has been a very relevant topic in accordance to recent events of lockdown, suicide etc., and it should be as it is very important to have good mental health. There are a lot of feelings involved in it like sadness, anger, anxiety, pain, rage, vengeance, rudeness, insensitivity, hate etc. and ironically, we eventually start hating ourselves for feeling so much. It is a loop and there is nothing to feel bad about feeling bad. It is natural and it is okay, feel it, accept it and move on to break the loop. We all have, at a point, gone through it so no one will judge us for being in bad mental health. It is okay and it is inevitable.

We all can see the physical pain and suffering as it is quite prominently visible to each one of us, but it is not the case with mental and emotional pain. When it comes to recognizing whether a person is in a good place mentally or not is very difficult, but not impossible. Some know each other well enough to see each other's face and conclude so. Some have a god gift, some are trained to and to some it comes with experience, which could be their own or by observing others'.



It is okay to get comfortable but it is not okay to always stay there. To develop ourselves and to get through it, we must get out of our comfort zone. Even a small seed needs to break the comfort of the warm soil to grow into a beautiful plant. A caterpillar breaks out of the comfort of the cocoon to grow into a beautiful butterfly. One would ask, how to break the cocoon or how to rise above the soil? The first step is to talk. It is very important to talk. It could be with your parents if you are comfortable with them, or a friend or a cousin who you think will understand you well and most importantly not judge you. Some of us are not very good at expressing ourselves with words and it will feel very uncomfortable before you start, like a lump in your throat, but once you get it all out it will be a big relief. The first step is the most difficult part of it but when you make the first move, the rest will follow up. Have faith in yourself and embrace the journey.

We eventually get through, and things start falling into place. We had begun with an attitude that we would never be able to smile again, but now when we look back at it, we are grateful of the journey and who we have become. We look back and feel the smile. It was tough but not impossible, so we had not given up. We develop a sense of greater understanding and compassion for people around us, because we don't want anyone to go through the same time we went through. We understand to be kind because we have no idea what a person might be going through at that particular point of time.



We might encounter a time when our close ones would be going through a rough patch, and we would want to help them out. We get a chance to be the person we needed the most when we were going through rough times. We could start by reaching out to the person directly, but that could backfire sometimes. The key is to be patient and to get the person comfortable with you. Start by sharing your time and life experiences and keep it two ways, but also make sure to respect their space and give them as much as time necessary. Slowly move towards your rough times. This will make the person comfortable sharing their own worries and make him feel that he is understood without judgement, but be patient and don't rush the process. The person will open up one day and make sure you just listen without trying to guide them. What the person then needs is a friend to listen and understand rather than someone to guide them. The person needs to get it all out without interruption and when it is done, he will feel better. Be there for them and also let them have their own space to reflect upon what they went through. Next time you meet, he would be in a much better place and you could now impart your wisdom and guide them to a good place.

Being there for oneself and others can be tiring and mentally exhausting, so take your own breaks. It is always okay to be in a bad place. Embrace the pain and the journey, as it will take you to a very good place one day. One day you will look back at your sufferings and smile upon the people and things you move on from, as well as the human being you have grown into. Be kind and be grateful. May the force be with you.

राह

- Zeel Raj

बहुतों से अपने बनाये इस राह में
कुछ को पराये कराये भी हैं इस राह ने
रुठे तो बहुत बार इस से, लेकिन
ये रास्ते अभी कुछ दूर साथ चलने को हैं।

जो भी कुछ सीखा है आज तक इसी की बदौलत है
गिरा हूँ गीली जमीन पर, दबा अपने घमंड तले इसी की बदौलत है
सीखने की आग जले वैसे ही आज भी, क्यूँ ना बीते चाहे साल
ये रास्ते अभी कुछ दूर साथ चलने को हैं।

वक्त बीते वो ज़माना हुआ जब हुआ यह एहसास
जिस मिट्टी का बना हूँ उसी में खो जाऊँगा
राह तो चलती रहेगी मैं उसका हो जाऊँगा, लेकिन तब तक
ये रास्ते अभी कुछ दूर साथ चलने को हैं।

थामा था हाथ जिसने साथ दिया हर मोड पर
मूँह फेर लुंगा और चल दूँगा उसे छोड कर।

याद आए मेरी तो मुस्कराना मत भूलना तुम, ए दोस्त
ये रास्ते किसी और संग आगे बढ़ने को हैं।

HUSTLE

Printed Podcasts

*In Conversation with Tarun Rijwani,
(Founder, Rudrabots)*

In this candid interview, we spoke to Mr Tarun Rijwani, an IITRAM alumnus from the batch of 2019, about his journey of giving shape to his dream of successfully manufacturing the most affordable 3D printer from scratch. This interview was taken in 2018 when Tarun was in his 7th Semester.

Interviewers:

Aniruddh Sharma,
Rushabh Sagara

Edited by:

Ipsita Sengupta
Priyam Duggad

RUSHABH: Welcome to the platform of Vichaar! Today we have Tarun Rijwani with us. So Tarun, is it true that you have created a 3D printer at home all by yourself?

Tarun: Yeah it is true.

RUSHABH: Wow, that's incredible! It's no secret that 3D printing has created a revolution in the field of mechanical engineering, and you have made a 3D printer all by yourself from scratch - which is a great achievement in itself! How do you feel about it?

Tarun: I do feel great, but although the technology is new, it's not too difficult either. You can do it too! All you need to do is just search and learn a few things online. It takes time, but if you

have a curiosity about electronics then anyone can make a 3D printer for sure. Everything is available on the internet nowadays, so you can search for a few things, designs, advantages-disadvantages, etc.

RUSHABH: So consistency is the key.

Tarun: Of course!

Aniruddh: Alright. So what were the different domains of learnings and courses that you had undertaken to make this 3D printer?

Tarun: Okay, so one might be inclined to believe that I made this printer in a short span, which is not the case at all. I've been working on it for the last three years, since my diploma days in mechanical engineering.

LET'S TALK

Unfortunately, back then I was running short of funds since this was a new technology, and developing it required good money. I would like to add that my friend Nandan Patel had contributed to funding to make this possible, and I'll always be grateful to him.

Apart from that, for the past three years, I had continuously been learning about more efficient ways of fabricating this 3D printer at more affordable prices. Three years ago when I started this, the cost was about 50K rupees.

RUSHABH: in the market?

Tarun: Yes. To estimate the cost, I made a list of all the things that I would need. In the market, these printers come in lacs of rupees, because these companies need to do R&D and stuff, which I think I had done a lot. They also need to provide service.

Aniruddh: Can this 3D printer compete with the 3D printers already available in the market, concerning quality, performance, price, etc?

Tarun: surely it can. The main idea was to make a 3D printer under the budget of 100 dollars, but including 18% of GST in India, it will be somewhere close to about 10K. It's still in progress, since the current 3D printer costs about 14 to 15k and includes GST.

RUSHABH: So does it fulfil all the demands that any reasonable individual expects of a functioning 3D printer?

Tarun: Yes, Definitely.

Aniruddh: That's awesome! So, What the fundamentals that you had learnt while making this device? Can you elaborate the specifications of your 3D printer?

Tarun: In terms of fundamentals, since my childhood I had always been interested in electronics. The fundamentals of the 3D printer consists of mechatronics and a deep

understanding of 3D printers, such as calibration, working of different types of motors, microcontrollers, as well as knowing how to program these devices on your own. I have been working on microcontrollers for a long time, but still have a lot to learn. Anyone can learn these things as all resources are available on the internet.

RUSHABH: Do you prefer academic learning or self-learning?

Tarun: academic learning is something you need, skills are something you should have. Everyone has different kinds of hobbies and skills, you might be interested in drawing games or something else. Electronics is my hobby. in my childhood I used to play with motors and these kinds of things interested me. My journey started and eventually, not just through making a 3D printer, but also by making a few other devices such as the Quadcopter. Eventually I settled with the 3D printer.

RUSHABH: What are the specifications of your first 3d Printer?

Tarun: The bed size of my 3D printer is 200*200*200 mm so I can print a part as large as 20cm * 20cm * 20 cm. The accuracy on the Z-axis is 1600 steps per mm and apart from that and in x and y-axis it is 80 steps per mm. The minimum achievable layer height is 0.1mm.

Rushabh: So, when & how did this idea, of making a 3D Printer at home, occur to you, 'coz it's not something basic that anybody can come up with all the time right?

Tarun: Yes, it's not basic, but as I said that I was into Electronics, and back in 2014, the moment I came to know about 3D Printer, I started searching about how this thing works! And most of the data that I have used is from 'Prusa'(3D Printer Manufacturer), they had open sourced everything, and I had downloaded each and every one of their files. I had learnt everything from them. This company was started by Joseph Prusa, and I was intrigued by it a lot! I became familiar with many of such websites online, those who were teaching these kinds of technologies.

At that time, I wasn't very familiar even with an Arduino, but then I learnt all of this, and got to know more about different motors, actuators, etc. & then I started leaning towards robotics. But I still didn't delve entirely into 3D printing because back then they were very expensive. When I learnt about 3d printing, I got obsessed with the idea that you can print anything that is in your imagination. So you can just dream of something, and the next moment it's there with you physically, in real!

Rushabh: It's like a Shaka Laka Boom Boom pencil!!

Tarun: Yep, it is like that pencil, where you can draw and make it real... But in this case you need money for it! (Laughs!)

A: In what aspects is your 3D printer, the one that you made at home, better than the ones available in the market?

T: Well, it's no different from the ones available in the market. But I have ideas through which I can make it different, totally different in fact, but I need funds for that & that is where I lack! But I could not start seeking funds from people, because if I go for funds then their first question would be about what I did(achieved) in the past, and they also won't trust me if I will tell them about my innovation in 3D printers, rather they will take it as a joke! But now, as I have made my 3D printer, I can show them my work i.e my prints which I had made from just a 15k worth 3D printer, which can take lakhs of rupees but I had made the same thing in here, and on that front, I can ask them about fundings.

R: BTW, how much does a 3D printer cost in the market?

T: The least cost of a basic 3D printer, currently, is around 1.5 lacs rupees, not including the GST! And more advanced models cost 2 or 2.5 lacs & more.

R: That means your printer costs almost 10 times lesser than the ones sold in the market! Moving on, so how did you convince your parents on spending money on this project i.e. how did you make them believe you and let you spend the money on your idea.

T: My father always supported me in this endeavour, because my father himself had introduced me to Electronics. At 14-15 years of age, whenever I used to play with toys like electric cars, it was my father who showed me that it is the electric motor which drives this car, how it runs through a battery & how we can even use that motor separately! And then I started exploring this more, and my parents always supported me. My father did have some basic understanding of electronics and stuff, but was completely unaware of high techs like 3D printing!

R: That's great! We know that a journey is never a smooth one, and there are bound to be low points in the trajectory, where we feel like giving up! As this took you 3 years, what were the times when you felt like giving up, and how did you overcome these feelings?

T: Initially, 2 or 2 & half years back, when I made a 3D printer, it was made up of wood. Then after 6-7 months, I began making the 3D printer with a wooden structure...

But later I realised that it won't work! All my struggles went in vain, as even the required techs were not available at that time! But these failures taught me a lot, and that's one constant thing - learning. I learnt a lot. Still, one of the big barriers in my way at the time was funding. My family supported me, but it still wasn't enough for making a 3D printer, as the cost to make a 3D printer at that time was around 50 thousand rupees! It's not an amount that you can tell your parents to provide; along with that what return should I expect by making a 50k 3D printer? You always need a return on equity, and I was unaware of how to generate that return. Also due to less tech awareness at the time, I couldn't approach anywhere else either. Still, to make my dream a reality, I tried approaching a few companies with my idea, but they weren't interested! But still, instead of giving up, I went on and then I came to know of a few online groups on telegram & Reddit. You can raise your question there, and they guide you step by step. Frankly, I had given up on the idea when my wooden structure failed & the persistent funding issues! But later on, I don't know why but I again gave this a try, and around that time all the tech & electronics that I needed were cheaply available in the market! Structures were also available easily. Like current 3D printers have aluminium structures, and hence I too made an aluminium structure, which is used in my current 3D printer. But again one thing was constant - even when I gave up on the idea, I was constantly learning about new technologies, and whenever a video had come up on my YouTube suggestions regarding the 3D printer, I would go through it enthusiastically. On some of the Facebook pages that posted regarding this, I was in contact with them too! Joseph Prusa was still there, and I was still following him. And it was at that time that something struck me... that now it is possible, & that now I can transform this dream of a 3D printer into a reality, and that too, within my budget! So, this is how I made it!

A: It's commendable that even after the lingering issues, your zeal & fire for your dream kept you motivated throughout the journey. Who was your role model or your inspiration that you looked up to in these tough times?

T: Joseph Prusa! He was the one whom I truly admired, & other than him, there were few people online, who did one or other remarkable things in 3D printing. Whenever I used to read about them, I had a belief that I can be like them, that I can make a 3D printer! These were the things that kept pushing me towards fulfilling my dream!

R: Ok... A role model is someone present inside you, it's an inner motivation, but who were the ones who kept pushing you every day, in real life?

T: Oh there were... My professor from my Diploma College, Sir Pankil Vakani. He was someone who always pushed me to do innovative things in my life, and another one is Dr Navneet Khanna. He was the one that showed me how technology & innovation is important, and how 3D Printers are changing the world! As I had already spent 2-3 years in 3D printing, I found its classes as something that I already know, but Navneet Sir made me realize that it's not that easy as it seems, and when I began making my 3D printer, I found that he was right!

- T- My close friend, Nandan Patel from this college funded me for this project. We have equally distributed funds right now. And he is equally owner of that 3d printer.
- R- Okay, so you would like to add him to this list?
- T- Yeah, of course, he is on this list. Because without Nandan, it won't be possible for me to even take 15,000 rupees of risk. It's of course a risk because you will either make a 3d printer or you will learn a reason how not to make a 3d printer. So Nandan supported me and we made it.
- A- In India, academics and all these things feel like a burden; Still for a person like you but, how were you able to manage your time for learning and making 3d printer along with your studies?
- T- Do not take studies as a burden. Do study up to the level you can do. See, you can't judge a fish by how fast it can climb a tree. As a fish is made to swim and a bird is made to fly, so you can't judge them on the same scale. Study yourself something you need. It's a basic necessity. To prove yourself you just need basic marks and do follow in whatever you are interested in. Because if you will do the thing which is your hobby and if you convert your hobby into something you can commercialize and into your passion or try to generate money out of your passion then it will be a lot easier for you to be successful in your working area.
- A- There are people who, whenever we start to do something, try to put you down, put you back again to your place. So what were their reactions before and after your success?
- T- There were people, those who come to me and say that it's not possible. Even though few people nowadays meet me and when I tell them that I made a 3d printer, they say it's not possible to get a good printout from it. At that time. I put my hand in my pocket, take off my print, I printed this thing on my 15,000 rupees 3d Printer. That's the answer to them now. Negative people always approach you in your life. You should not get affected by those people. Those people will say that it's not possible for you. Just tell them okay, you think it's not possible for me, but I will prove you wrong. This should be a motivation for everyone I will say.
- R- Last question, do you have any story which inspired or pushed you while working on your interest?
- T- There's a story of two people, who are given a task to cut trees with their axe. Both come to cut the trees, where one person directly goes on cutting the trees while the other one comes and asks him if he had sharpened his axe? The person says, why will I sharpen the axe, I have an axe, I will not waste my time on sharpening it, I will directly go and cut the trees I will invest my time on cutting trees, as the more trees I cut, the more money I will make. And another person invests two to three hours in sharpening his axe. And then within a few hours, he was able to cut more trees than the other person. So it is the latter thing which I had done. When I was not able to make a 3d printer due to the funds, I didn't stop. It was in my mind that I can quit all those social media groups from which I am learning, and whenever I was having contact with those groups, it also irritated me at once. Whenever I see that group I used to feel that why I'm not able to achieve this thing. But instead of that irritation, I took it as a whole or something more of like motivation from that thing. I used to see those people and think that one day I will also make it and tell myself that it is not a big thing to make a 3d Printer.
- R- Great! So, Tarun Rijwani, it was great & enlightening to have a chat with you. You are someone which, I hope, people would love to know! So, once again congratulations on the 3D printer, your creation, and all the very best for your future journey on the behalf of Team Vichaar! Thanks for talking with us!
- T: Thank you Rushabh & Aniruddh, it was great to have a chat with you too! And thanks to the whole team of Vichaar for giving me this opportunity to share my thoughts(Vichaar) with the Institute. Thank you!

Tarun Rijwani went on to create his Start-up, Rudrabots, which has been growing steadily, and reaching new heights. It has received significantly large amounts of funding from various incubation centres, and has achieved a lot within a very short span of time.

Achievements of Rudrabots

1. Winner of Devang Mehta Innovation Challenge 2019 Ahmedabad
2. Winner of Student Grant Challenge Program by Centre of Innovation Incubation & Entrepreneurship IIM Ahmedabad 2020
3. Secured place among top 10 campus start-ups by SINE IITB 2020
4. SSIP Prashansa Award 2020

Progress:

Rudrabots has 3D Printed over 5000+ Biodegradable plastic components
 10+ workshops on 3D Printing
 500+ students trained for 3D Printing
 Provided 3D Printing solutions in various disciplines like Medical, Aerospace, Textile Industry
 Expanded Team to around 10 members, who are working actively towards the vision of the company.



Mr. Tarun Rijwani

સપોર્ટ સ્ટાફનું મહત્વ

Importance of Support Staff

- Bhumika Dattani

અહીં વિવિધ પ્રકારના સપોર્ટ સ્ટાફ છે જેમ કે સફાઈ કામદારો, ગ્રંથપાલ, રક્ષક, જાળવણી કર્મચારી, લેબ સહાયક, કૂક, વગેરે. તેઓ ત્યાં સંપૂર્ણ સ્વચ્છતા સાથે યોગ્ય રીતે કાર્ય કરે છે અને સાથે સાથે વિદ્યાર્થીઓને જ્યારે તેઓને સંબંધિત રીતની જરૂર હોય ત્યારે મદદ કરે છે. સપોર્ટ સ્ટાફ સ્વચ્છતા અને વિદ્યાર્થીઓને અભ્યાસ માટે યોગ્ય વાતાવરણ પૂરા પાડવામાં મહત્વની ભૂમિકા ભજવે છે.

ઉદાહરણ તરીકે

(1) ગેટ પરનો સિક્યુરિટી ગાર્ડ રજિસ્ટ્રેશન વિના અજાણ્યા લોકોને ક્લેજની અંદર આવવા દેતા નથી. તેઓ 24 * 7 ઉપલબ્ધ છે, પાળીમાં કામ કરે છે.

(2) આ સમયે કોરોના વાયરસને કારણે લોકડાઉન થઈ રહ્યું છે, પરંતુ મેન્ટેનન્સ સ્ટાફ હજી હાજર છે અને કોલેજમાં કાર્યરત છે.

(3) જો અહીં કેટલાક કારણોસર વીજળી બંધ થઈ જાય છે, તો આપડી પાસે તકનીકી સ્ટાફ ઉપલબ્ધ છે, તેઓ આખી વીજળી સિસ્ટમ જાણે છે.

4) જિમ ટ્રેનર આહાર યોજના, શરીરને સંપૂર્ણ અને ફીટ કેવી રીતે જાળવવું, ઉપકરણોની સાથે અને વગેરે કસરત કેવી રીતે કરવી તે પણ વિગતવાર માહિતી પ્રદાન કરે છે.

(5) માળી ક્લેજની આજુબાજુ હરિયાળી રાખવી, છોડ અને ઝાડને રોજ પાણી આપવું અને પછી કાતરનો ઉપયોગ કરીને તેમને યોગ્ય આકાર આપે છે. (6) પિયોન નવા લોકોને સંપૂર્ણ સંબોધન પૂરું પાડે છે, ઓફિસમાં કામ કરતા અધિકારીઓને પાણી, ચા, કોફી, દસ્તાવેજોની ઝેરોક્ષ અને તેઓ વસ્તુઓનો રેકોર્ડ પણ લે છે. (7) પુસ્તકાલય પુસ્તકને યોગ્ય શેલમાં રાખવું, સ્વચ્છ અને શુદ્ધ વાતાવરણ બનાવું જેથી વિદ્યાર્થીઓ સરળતાથી અભ્યાસ પર ધ્યાન કેન્દ્રિત કરી શકે, વાંચન સામગ્રી ઝેરોક્ષ કરવામાં મદદ કરે, જો કોઈ અવાજ કરે તો તેઓ તેમને ખિજાઈ અને ત્યાંથી બહાર નીકળવાનું કહેશે. (8) જો કોલેજમાં કોઈ કાર્યક્રમ છે, તો ત્યાં સજાવટ, આમંત્રણ, દસ્તાવેજ, બજેટ, વગેરે જેવી બધી બાબતોને યોગ્ય રીતે ગોઠવવા માટે મેનેજમેન્ટ સ્ટાફ છે.

આ બધા શિવાયે ક્લેજ નો એક ભી દિવાસ કાઢવો બોવ જ મુશકિલ છે. પ્રત્યક્ષ પાને તમણે નિભાવેલી ફરાજો ની નોંધ લેવાતી નાથી, પરંતુ એક્ઝી જરૂરીયાત અપના ખોરાક મા ઉમરેતા મીઠાં જેવી છે.

મુખ્ય કર્મચારી સહાયક કર્મચારીઓના સમર્થનને કારણે છે કારણ કે તેઓ સ્પષ્ટ વાતાવરણ બનાવે છે જેથી તેમના સ્વાસ્થ્ય માટે સારું અને કામ પર ધ્યાન કેન્દ્રિત કરી શકે છે. તેઓ દરેકના જીવનમાં મહત્વપૂર્ણ ભૂમિકા ભજવે છે.

આપણે તેમને તેમની જાતિ દ્વારા અથવા નીચલી બાબતોમાં કામ કરતાં હોઈ તો કદી તેમને અપશબ્દો બોલી ને અપમાન ન કરવો જોઈએ, તેથી આપણે હંમેશાં તેમને આદર આપવો જોઈએ અને સારા વર્તનથી વર્તવું જોઈએ.

-ભૂમિકા દત્તાણી

सफर

By: Anjali Gupta

आज हाँसलों को अपने पैरों में कैद कर

आज फिर उड़ चला है यह पंछी

जाना है दूर कहीं

वापस आने की सोच वही

नापना है प्यार की ऊँचाइयों को

सुनना है उन कहानियों को

जो गुंजती है शैल की वादियों में

भीगना है उन आंसुओं से भरे बादलों की नमी में

खोना है अब दर्द और खुशी के क्षितिज में

गोता लगाना है यादों के समंदर में

समझना जो है ढाई अक्षर को

भले ही आखरी उड़ान दो

यह नादान पंछी क्या जाने

कुछ अधूरा तो उन ढाई अक्षरों में भी है

सूर्य और चंद्र को भी क्या माने

जो जुड़कर भी साथ नहीं है

मिलकर भी एक ना हो पाए वह सागर है

पतझड़ में जो वृक्ष से अलग हो जाए वह प्रेम है

जहां एक साथ हो जाना ख्वाहिश है

वही जुदाई जिंदगी की आजमाइश है

दो धागों के सिरे

कभी एक होते हैं भला

जमीन और आसमान को

कभी मिलते देखा है भला

जाना है दूर कहीं

मंजिलों से परे

चाहत है जिस अमृत को पाने की

ज्ञान की ऊर्जा समेटने की

चाहे अंजाम जो हो

वक्त का पैगाम जो हो

निराशा को अपनी आंसो से हराऊंगी

खुशियों के दो पल जिंदगी से चुराऊंगी

दर्द को एकत्रित कर सुर में गाऊंगी

आखिर में जगत में विलीन हो जाऊंगी

अब इस सफर में आगे बढ़ते चली जाऊंगी

और एक दिन उस ढाई अक्षर के मायने भी समझाऊंगी



Art by Harshini

Ahmedabad: They say- *The more eager you are for a thing to happen; the more destinies try to get it done.* Following the tradition set by their seniors by conducting a very successful Eunoia 1.0 back in 2018, students of IITRAM organised the second edition of its intra-college techno-cultural fest – Eunoia 2.0 on October 12, 2019, Saturday. It was not any ordinary Saturday morning at IITRAM. The entire porch was decorated for the event that brought a sense of elation from inside, excitement, nervousness, fun, all emotions coming together. The ultimate wait for another techno-cultural event was over after 1 and a half long years since the first event. With the tagline of *900 minds and One vision*, the whole institute worked whole heartedly to make this event a huge success. All the decorations, activities planning, cultural preparations were done within a very short span of one week. The events were scheduled from 9.30 in the morning till 6.00 in the evening, followed by cultural night and dinner.

The commencement of any event should begin with the blessings of God, following the tradition, at 9.00 AM a short lamp-lighting ceremony took place followed by the brief introduction about the fest. Then DG Sir and Director Sir marked the event open, and from 9.30 A.M. onwards different competitions, seminars, and workshops were held as per the fixed timetable.

Competitions and Fun-games in the event included:

- **Cadmax:** A technical competition for designers. It acknowledged the use of NX9.0 to convert 2-D drawings into 3-D; how well and how fast you are from your competitor to finish the given task!

- **Line follower:** It included assembling of the provided apparatus into a robot and further programming it to follow a given path. First team to make it to the finish line won the competition.

- **Chitrakala:** A competition for all the Picassos in the house. It was a live painting competition wherein the students had to roam around the college and look for a frame that would suit their imagination and paint it to life.

- **Counter Strike:** A competition that unleashed the gamer within the students. More than a competition it was a battle for the title of the best, a battle against the teams of different years, a battle to rule the arena.

- **Cash from trash:** This wasn't the average "best out of waste" competition. It included vigorous machining of the workshop (mechanical) crap into useful products. Innovative ideas of the students and their creativity blew the mind of judges as well.

- **The Justice Maker:** It is better to argue a question without settling it than to settle it without questioning. It was IITRAM's very own debate competition where all intellectuals were welcome to argue their points on some burning hot topics around.

- **IITRAM Quiz Master:** *KBC? Kya Paanchvi Pass se tez hain? Dus ka dum?* No! It was one of its types. It was a face-off in an intense quiz battle for the title of IITRAM Quiz Master! Those who dared to consider it a cakewalk didn't get even a chance to regret.



Down The Memory Lane

- **Technical Treasure Hunt (TTH):** The most popular events among all. More than 50 teams registered for the completion, seeing the craze among the peers, the completion was held in 2 phases, though only the 6 best teams made it to the ultimate finale. A competition that brought out the detective concealed inside the competitors who had to search for the hidden treasures kept in vivid corners with the help of some technical hints.

- **Photography:** A competition that captured the real beauty of Eunoia 2.0. the masterpieces were evaluated by the Photography club of IITRAM and some expert photographers.

- **Advertisement Dumb-charades:** Why should students have all the fun? The advertisement dumb-charades specially designed for our faculty to bring out the actors within. An epic fight among teachers, those who missed it made the biggest mistake of their lives 😊.

Workshop and Lecture-sessions/seminars:

- **STAAD PRO:** STAAD Pro is the CAD software mainly used for structural analysis. The lecture conducted by Dr. Kannan Iyer, briefed on how and where to use this software, how it can be beneficial, and how it could help one in determining strength of the structures.

- **Industry 4.0:** It was the most awaited workshop that encouraged the learning of automation and production. It described the new innovations and technology being used and how it should be adapted.

- **Sustaining Present Infrastructure For Future (SPIFF):** It was a seminar that focused on solving of current environmental and global problems through sustainable energy and development. The prime focus was to save resources for our future generations and moving towards the use renewable resources by reducing dependence over the non-renewable one.

Apart from all these events, a major point of attraction was the photo booth, several props were kept for everyone, and they could choose whatever they wanted. Almost everyone in the institute captured their beautiful selfies and groupies in the booth to cherish the memories of the event. Event like Innovatia aimed at exhibiting the start-up ideas from the college and promote their endeavours.

After all the seminars, competitions, and workshops were over, it was the time to enjoy the evening with some melodious music and outstanding performances. **Malhar 2.0**, the cultural event by the music club of the institute, was a dessert to the main course, a perfect ending. After a long day, when the soothing music entered the ears, it forced the legs to move on the beat, purging the exhaustion from the body. We were left in awe by the performances of our mates, we never imagined about the immense talent of the **IITRAMians**.

Bid adieu was given to the event with the vote of thanks, with happy and cheerful faces all around, with a hope to celebrate another festival of technology, of culture, of joy and happiness, in the form of Eunoia 3.0 – **1100 Journeys... One Destination**.



The Art Gallery

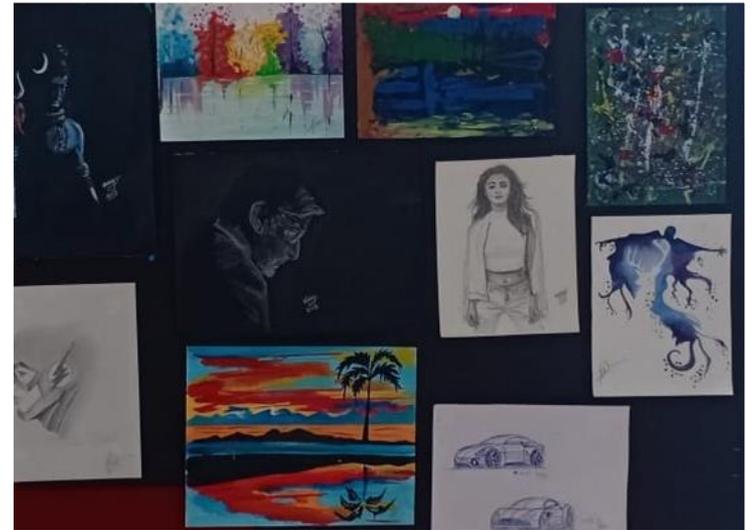




Photo Booth

Picture Courtesy: Jeet Thakore

દાયિત્વ

*Be The Change
You Want To See...*

By: Mudra Patel

To achieve a big dream and to fulfill the responsibility of a good citizen, Dayatva took small steps. In our country, the government provides free and compulsory education of all children in the age group of six to fourteen years under Right to Education Act, but after the age of 14 a lot of students from weaker financial background have to give up their wish to study further.



Dayatva – A social initiative of IITRAM Students with constant support of institute is playing the role of cupid for lesser privileged but deserving students and their education. Dayatva provides free of cost education to these talented young minds every Sunday in the institute premises. A batch of 214 students of 8 th , 9 th & 10 th standards are taught for competitive exams which helps them to gain scholarship for further studies. 36 students of our college have come together and are enthusiastically carrying forward the legacy of teaching students started by our seniors back in 2017. High quality education is provided along with constant assessments. Healthy meal is provided in break times as well. Complete knowledge of whatsoever is going on in surrounding is imparted. Along with assessments special sessions for counselling as well as doubt solving are held.

Initially students at Dayatva were enrolled through Ahmedabad Municipal Corporation (AMC), since last two years they are selected through DAATSE-DAYATVA's ALL AHMEDABAD TALENT SEARCH EXAM. Under the first edition students of 10 nearby government schools participated in the exam and 63 students out of 375 students were selected by scoring above the cut off percentage. But this year's edition has been special as opportunity was given to all schools coming under East & South Maninagar Jurisdiction. In total 1500 students were present for examination. Before this year only Gujarati and Hindi medium students were enrolled at Dayatva, but this year along with Gujarati and Hindi – English Medium students have also been enrolled at Dayatva.

Apart from providing Education, Dayatva Actively contributes for better development of society through its two initiative: Dayatva Happiness & Dayatva Green

Dayatva Green: To keep the environment green and clean is our responsibility. As DAYATVA is always looking forward for betterment of the society and being synonymous to responsibility an initiative named 'DAYATVA GREEN' was started to endure ongoing efforts to preserve our environment. It is a move to pool in

*Dayatva is a responsibility, a
જિમ્મેદારી, a કર્તવ્ય. કર્તવ્ય towards
our society, કર્તવ્ય towards our
surrounding, કર્તવ્ય towards our
environment and DAYATVA is truly
defined by its deeds!*

practical ideas that could be executed.

Several programs are being organized under DAYATVA GREEN. Some of these are listed as: -

1. Plants are being provided and awareness campaigns were organized.
2. A drive was organized by DAYATVA GREEN for awareness regarding Plastic bags and Waste.

The motive of this initiative is big not only because there are many points to be countered but also because those problems are created over the years. So, to counter those continuous and collective effort is needed. DAYATVA is sure about continuity but for collective effort, invites all of you to support us for this noble cause.

Dayatva Happiness:

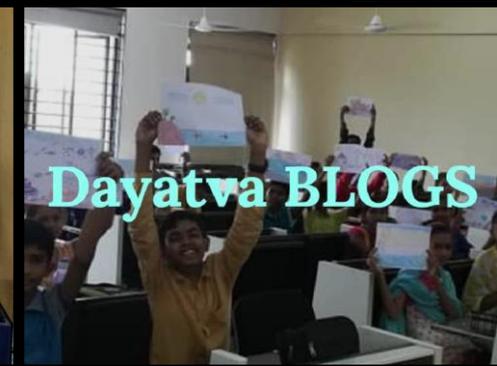
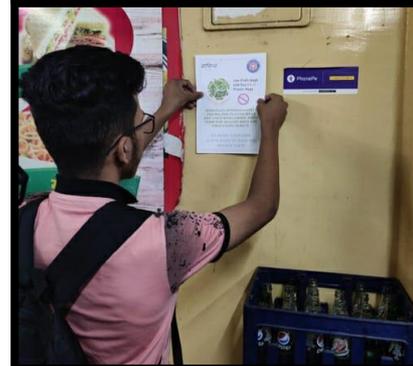
For a better tomorrow, we need to work in the present. In this developing world and being in a competition to be better, we forget to spend time for ourselves, for family, for the happiness. In order to spread happiness, peace, joy, unity and smiles on the faces, initiative was started namely, "Dayatva Happiness" as a small step to long journey. An initiative to promote positivity.

In our beautiful culture, for any new step of life, we take blessings from our elders. Following the path of our culture, Dayatva went to an old-age home. They tried to become a happy time of their day, by spending quality time. The smile on their faces was enough for everyone to feel the huge pleasure in life. It was a very beautiful experience for everyone.

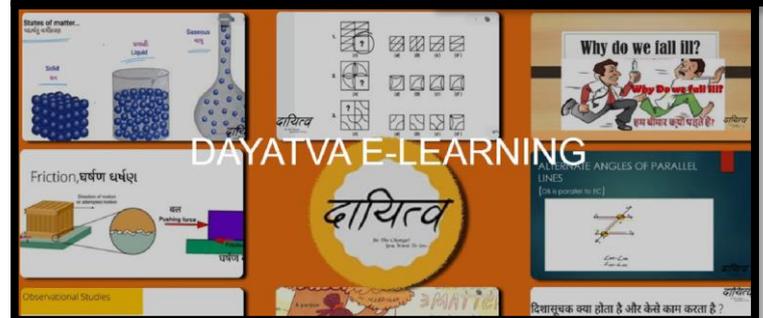
Current Scenario:

Sudden shutdown of schools and colleges due to COVID-19 also hindered education of students at Dayatva. Regret of not taking classes every Sunday, Dayatva came up with its very own YouTube channel on which videos of every subjects are uploaded timely. Through YouTube, students are easily able to access our recorded classes and are able to study uninterruptedly. Worksheets are also provided for every subject. Online tests are also held every month for their better understanding.

Dayatva has always set a benchmark, for its students and its faculty. We are improving day by day; the results of our students are the indicator. It has been a long journey, but it's never ending, new destinations are to be reached and new milestones are to be touched.



Dayatva BLOGS

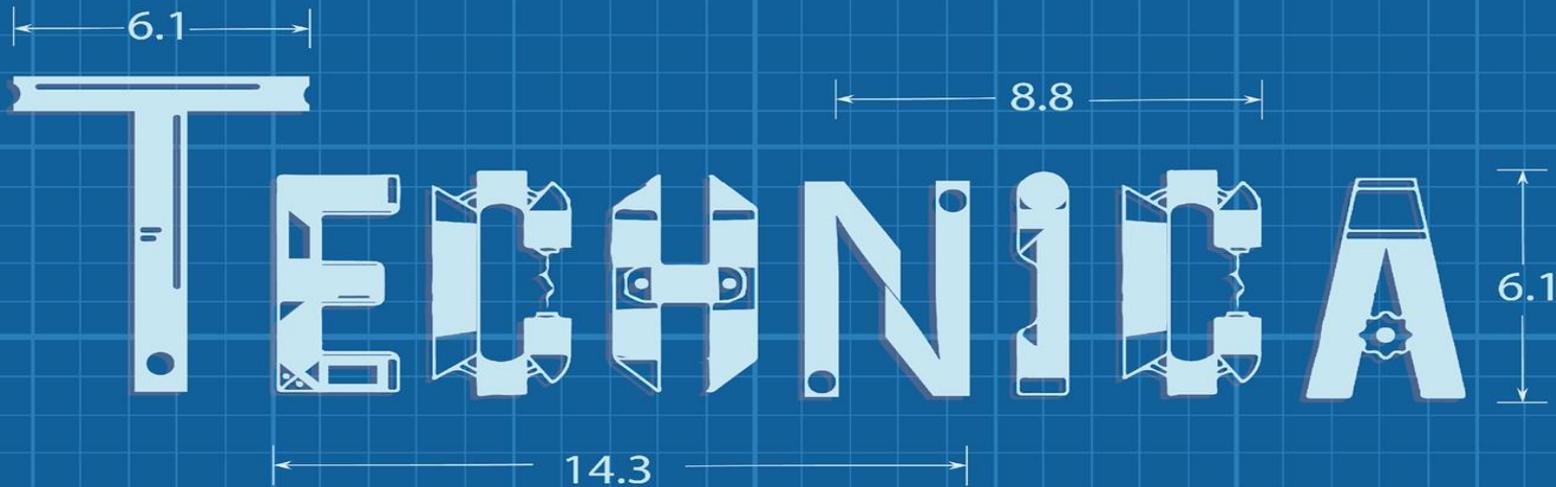


DAYATVA E-LEARNING

Dayatva is a responsibility, a ज़िम्मेदारी, a कर्तव्य. कर्तव्य towards our society, कर्तव्य towards our surrounding, कर्तव्य towards our environment and DAYATVA is truly defined by its deeds!



प्रियारंभु २०/१२/२०१६



The Technical Timeline

By: Zeel, Rohan,
Harshini, Xitij, Maitri

Advancements in technology through the years

Technological advancements have come a long way since the beginning of life on Earth. The term tech was first used to describe applied arts but now it is used to describe the advancement and changes around us. It starts with the beginning of life and has the potential to outgrow any living entity. It starts from the stone tools and goes as far as complex genetic engineering. Till now the

breakthrough initiatives, together with research in science have come a long way and the present inventions have to go a long way.

Technology helps us to improve our lives and make it efficient. Before the majority of people were blinded to the vision of different impacts this advancement could give in the field of - including but not limited

to - healthcare, finance, sports, cosmos exploration. Few of us did and here we are. As it is beautifully put by someone "Here's to the crazy ones. The misfits. The rebels. The troublemakers. The round pegs in the square holes. The ones who see things differently. They're not fond of the status quo. You can quote them, disagree with them, glorify or vilify them. About the only thing you can't do is ignore them. Because they change things. They push the human race forward. And while some may see them as the crazy ones, we see genius. Because the people who are crazy enough to think they can change the world, are the ones who do." They are being driven by the ideology that even if certain things work it doesn't mean that it can't be improved.

That's the beauty about this that even if we are certain that everything will be better in term of technology we are not even sure about the how, the platform we are considering the best right now might not be in existence and we would elevate to a new sphere of awareness or awakening where many of our beliefs or way of working or thinking or all will alter. This does not mean we should not let our imagination run on a sound basis and chart a course on how this will affect the individual and the individuality of our species and also, we might be honored enough to classify someone/something else. In 1928, Penicillin was discovered by Alexander Fleming. It played a major role in treating bacterial diseases and in the creation of today's pharmaceutical industry. Similarly,



But one thing is for sure, we are human beings and we adapt and evolve each second of our existence and thus does our technology.

anesthesia in the field of medicine which can be attributed to distinguish surgery from torture. Today, bionic eyes allow a blind person to see the world with the help of computer chips. 3-D printing is made possible only because of the virtual design which is a Computer-Aided Design. Recently virtual reality devices launched by various companies have revolutionized learning and entertainment. As blockchain is advancing we might completely transform how accounts are handled and the money transfer scenario.

"Here's to the crazy ones. The misfits. The rebels. The troublemakers."



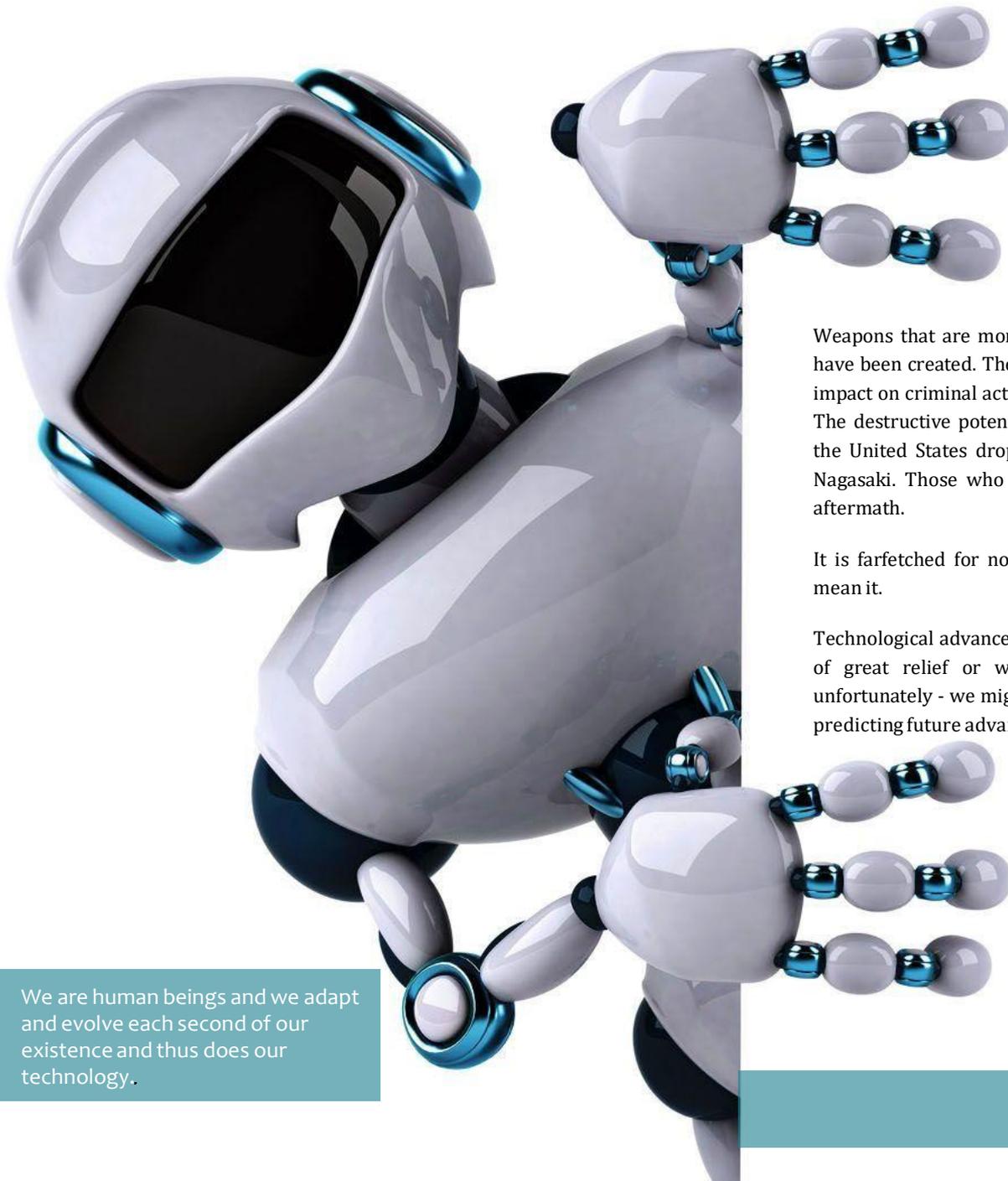
Bionic Eye- Front view

The role of artificial intelligence has taken robotics at a different pedestal. The motor movements, locomotion, biomechanics of a robot are all driven by computer programs. Space mission plays a major role in reinvigorating research in fundamental science, exploration of resources, and upgrading technological capacities.

The use of remote sensing and geoinformatics aids in the development of agriculture. Quantum computing is now being used for cybersecurity, drug development, financial modeling, etc. IoT systems are used in Smart Home, Wearables, Smart City, Smart Grid, Smart Retail, and Connected car. Nanotechnology helps to make stronger, lighter, more durable, and more reactive materials that have applications in electronics, energy, medical, and transportation



However, there are two sides to everything. The technology covered a long way to make human life easier but the negative aspect of it cannot be ignored. Indiscriminate industrialization and urbanization have resulted in alarming levels of pollution. Rivers are choked with sewage, industrial wastes, etc. Various modes of transport have contributed to the further deterioration of the planet and now pose a threat to the very existence of the flora and fauna. The reserves of natural resources are depleting. They are consumed at a faster rate than that of replacement.



We are human beings and we adapt and evolve each second of our existence and thus does our technology.

This has resulted in the estimation of the world's eco-footprint to be one and a half times the ability of the earth to sustainably provide everyone with enough resources that meet their consumption levels.

Besides, technology has cut off people from society rather than connecting them. There are growing concerns about the impact of digital technologies on children's emotional well-being, particularly regarding fear, anxiety, and depression.

Weapons that are more sophisticated and destructive than their earlier versions have been created. The use of new technologies by organized crime groups has an impact on criminal activities across the spectrum of a serious and organized crime. The destructive potential of atomic energy was witnessed in August 1945, when the United States dropped atom bombs in the Japanese cities of Hiroshima and Nagasaki. Those who survived the nuclear bombing are still suffering from its aftermath.

It is farfetched for now but we might finally say "the past was immutable" and mean it.

Technological advancements are happening at an exponential rate, is this a matter of great relief or worries is still one big concern because fortunately or unfortunately - we might be able to answer this by ourself - we are not accurate at predicting future advancements and their outcomes.

While all this still remains a realm of mystery and can't be depicted with much accuracy the turn of tables might be so bizarre that the root definitions might even change and whether technology advancement forges a utopian or dystopian culture won't even be a question cause no one would even be aware of the concepts of the past. But one thing is for sure, we are human beings and we adapt and evolve each second of our existence and thus does our technology.

फसाना

ज़िन्दगी के सफ़र का,
ये कैसा है फ़साना,
ज़िंदा है क्यूँ हम,
ये हमको पता ना,
जीने के लिए ज़िंदा है हम,
या ज़िंदा रहने के लिए,
जी रहे हैं हम,
ये कैसा है रिश्ता,
जो हमको है निभाना,
लगता है जैसे सब थम सा गया है,
पर ये सफ़र अभी तो शुरू ही हुआ है,
राहों में है निगाहें,
फँलाए अपनी ये बाहें,
कर रहे हैं हम इंतज़ार,
अपनो का मेरे यार,
इस सफ़र में साथ हम तुम,
फिर क्यूँ हो तुम गुम सूँ,

बेखबर से बेपरवाह,
बेफिक्र से हम,
बाटें अपनो का गम,
अपनो के संग,
हैं ये एक फ़साना,
जो हमको है बताना,
कदम बढ़ रहे हैं,
पर ये राहें कहीं ठहर से गए हैं,
ये ज़िन्दगी किसी लिखाई सी है,
लिखते मिटते रयाही सी है,
हूँ कल से अपने बेखबर में,
इस ज़िन्दगी के सफ़र में ।

-जितेंद्र कुमार



Masks

From necessity to a fashion accessory!

By: Manu Singh

I always thought how the sense of fashion came into existence, but through my observation in this pandemic period, I can say that cloth was just a basic need earlier and then slowly it became a fashion statement - similarly masks were just a way to cover your mouth from contagious microorganisms, but now there is so much variety available in the market that it appears to be more of a clothing accessory 😊.

Online clothing brands are selling more masks than any medical store; there are so many styles and types available that for buying only one, it could take me an hour!

Since we are here to discuss masks, let's look at all the types available around:



The Humble-Simple Surgical Mask:

These are the aam-aadmi masks, usually worn by everyone. These are very cheap, hardly ₹10. Though these are only for one-time use, yet my family uses a single mask by washing it every time until it gets ripped off 😊 (Caution: Do not try this at your home, it is not at all advisable, believe me!)



The high-profile N95 Mask:

These were in high demand during the onset of this pandemic. Due to its shortage, the difference between the cost price and the selling price was more than ₹400. I could see it only on the faces of doctors, police, government employees, and some Richie rich people. Though after government advisory, we should not use them as even N95 masks can serve a risk for you. (Poor N95! 😞)



Thou shalt sleep well, listen to sick beats and wear thy mask as thou goest hither.

The Cotton masks in disguise:

There are just so many of them, from quirky designs to shapes to colors to patterns, these are the ones currently ruling the market! These are trendy, fashionable, reusable, washable, pocket- friendly, and thus on everyone's shopping list. People are so creative with these masks that they get their face printed on it (weird! 😬). I was once astonished to observe that every time a news reporter wears a mask matching her attire. It blew my mind when I came to know that she had a whole wardrobe dedicated to such cotton masks 😬. I guess their ability to adapt has made them everyone's favorite.



The Desi Gamchha:

Though it is not a proper mask, you can fold it in 3 layers; it is ready to protect you like other masks! These masks represent the desi swag of our country and are even adored by our honorable Prime Minister and several other politicians as well.



The Sona-Chandi Masks/ Nawabi Masks:

These are costliest among all 😬, though they can't guarantee you safety but are high on royalty. The cost of only one mask can make you go gaga. One gold mask can cost around ₹2- 3 lacs, and one silver mask costs ₹15-20k 😬 - that's my expression on knowing about the price.



The Manish-Malhotra specials:

Yes, you are correct! These are designed especially for fashionistas who can wear them in hi-fi parties, grand weddings, celebrations, and get-togethers, genuine award shows 😬, and other places where they want to show-off.

Special-mentions:

- **Face-shields:** These are for those who are over-protective but don't want to hide their face. 😬
- **Gas masks:** These are for those who feel that the present environment is no less than that of a war-zone (pun intended! 😬).

It all started with a surgical mask or maybe N95 for some, but now it has become a well-set market. Who would have thought that it will become a fashion-accessory someday? Not me. Since no fashion-trend lasts forever, I just wish and believe that this too won't stay for long.





*“Shoot for the Moon - even if you miss it,
you will land among the stars”*

~ Les Brown

Quotes for Positivity

“ A lot of things happened this year, and you have had to bear more than you ever thought you would, but I just hope you know, through the difficult and the good, you have also been brave, in a beautiful and honest way, and no matter the progress you feel that you have not made, you are still growing here. “

~ Morgan Harper Nichols



Halo from the other side? - Ipsita Sengupta

The residents of Bengaluru were left in awe, as they witnessed a rainbow coloured Halo surrounding the sun on 24th May, 2021. The brilliant natural phenomenon was first noticed at around 11am, and lasted for about an hour.

But what are Halos? Let's find out...

A Sun halo, also known as '22 degree halo', is an optical phenomenon that occurs due to sunlight refracting in millions of hexagonal ice crystals suspended in the atmosphere. It takes the form of a ring with a radius of approximately 22 degrees around the sun or the moon. Circular halos specifically are produced by cirrus clouds, which are thin, detached, hair-like clouds. These clouds are formed very high up in the atmosphere, at a height of over 20,000 feet.

The halo phenomena occurs when the light is reflected and refracted by ice crystals and may split into colours because of dispersion. The crystals behave like prisms and mirrors, refracting light between their faces, sending shafts of light in particular directions. Atmospheric optical phenomena like halos were used as part of weather lore, which was an empirical means of weather forecasting before meteorology was developed. They often do indicate that rain will fall within the next 24 hours, since the cirrostratus clouds that cause them can signify an approaching frontal system.

Just like a rainbow, a halo is visible when viewed from the correct angle - sometimes appearing just white but often with colours of the spectrum also present. They are the collective glints of millions of crystals that happen to have the right orientation and angular position to direct their refracted light into your eye.

All technicalities aside, the halo sure brought in a brief moment of amazement and excitement among people in these otherwise grim times. Netizens took to social media to post pictures of the rare phenomenon. Some even expressed their firm belief that this was a literal ray of hope from the divine, assuring that the tough times are soon to come to an end.

Whether or not to believe that as true is left completely to the discretion of the individual. However, what can be said with conviction, is the fact that it brought a merry change to our otherwise mundane lives.

(Some information collected from TOI)



A 12th Century Historical Sculpture
Clicked by Pranshu Soni

Celebrating Art

-Ipsita Sengupta

Art, in its rawest definition, is the expression of human creativity and imagination, typically in a visual form, manifesting immense beauty and emotional power. We often mistake art to be limited just to painting and drawing. However, the horizons of art stretch much beyond that, into artforms such as music, literature, dance, sculpting, filmmaking and cinema, architecture and theatre. Although all these forms have different means of expression, the one thing that they have in common is the impact that they have on people's lives. Because no matter how much we toil in our fast paced lives to make progress, it is art that makes the experience of life a lot more enriching and wonderful, to say the least.

18 Lesser Known Movies to Include in your Watchlist...

- 1) Memories of Murder (Korean)
- 2) Incendies (Canadian)
- 3) Ship of Theseus
- 4) The Apu Trilogy (Bengali, Satyajit Ray)
- 5) About Elly (Iranian)
- 6) Battle Royale (Japanese)
- 7) Perfect Blue (Anime)
- 8) The Great Indian Kitchen (Malayalam)
- 9) Raincoat
- 10) Ek Doctor ki Maut
- 11) La Dolce Vita (Italian)
- 12) Kapurush (Bengali, Satyajit Ray)
- 13) Aamis (Assamese)
- 14) Taste of Cherry (Iranian, Abbas Kiarostami)
- 15) Gumnaami (Bengali)
- 16) Paava Kadhaigal (Tamil TV series)
- 17) The Tashkent Files
- 18) The Social Dilemma

જીવન એ બનાવટી દુનિયા છે

By: Kashyap Rachchh

Art by Xitij

જીવન એ બનાવટી દુનિયા છે એ હું
જાણું છું....

જીવવું છે મારેય મારી ગરીમાથી એ હું
જાણું છું....

સાંભળીયુ વડીલો પાસે “બડે ભાગ્ય
તુજ મિવા મનુષ્ય શરીરા...”

એટલે ખુશી વેચવી નહીં, વહેંચવી એ હું
જાણું છું....

મલે સાહેબ....

જીવનમાં ઠોકરો ને પણ હસવું અને
હસી કાઢવાનું જાણું છું....

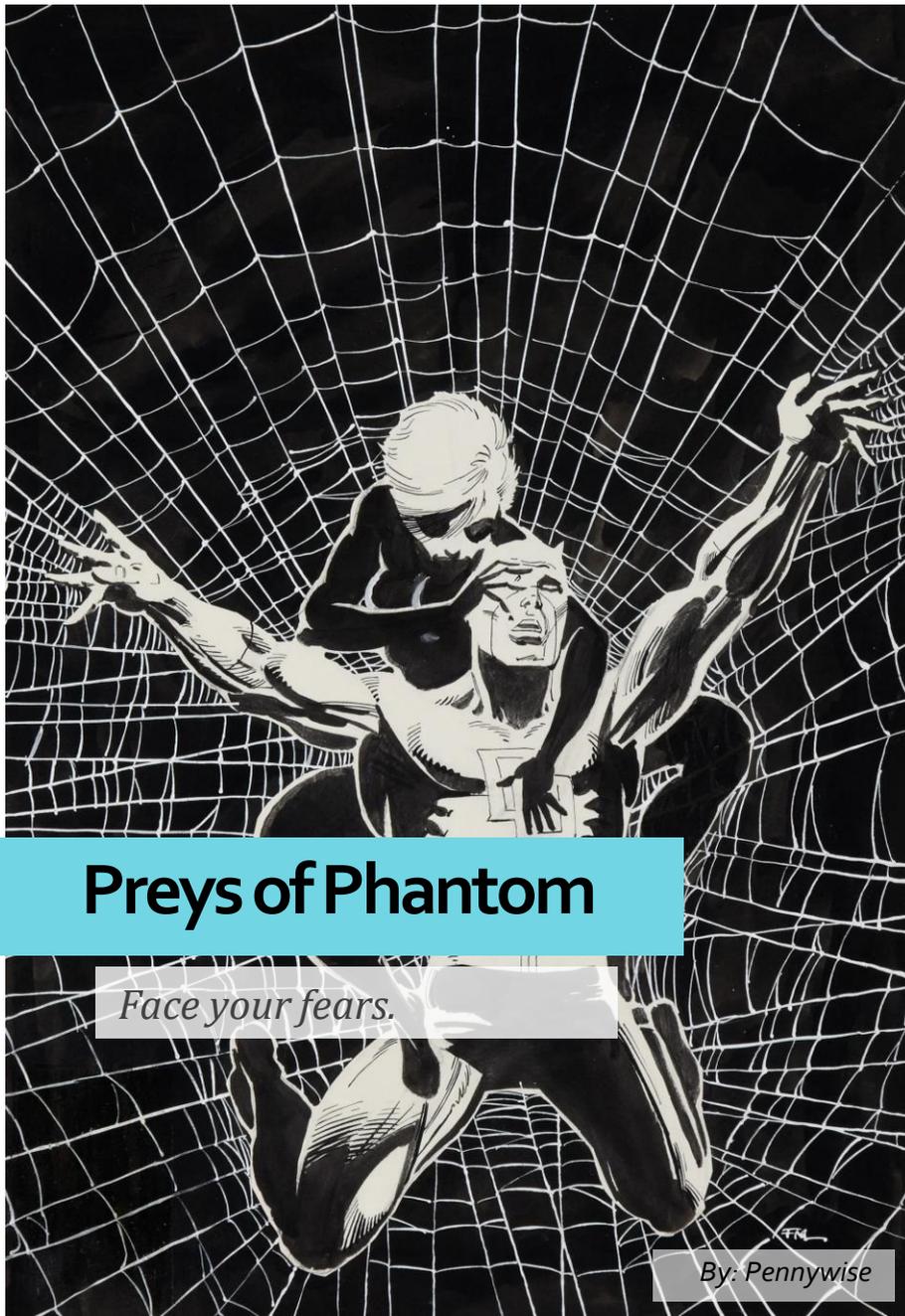
જોવ જીતવું યુગવ...એટલે આવે તારી
યાદ એ હું જાણું છું....

જીવન એ સુખ-દુઃખની પારાશીશી
તેનાથી શું નારાજગી...

ઉગાડો બાજરો ખેતરેમાં તોય
અનિચ્છાએ ઉગવાનું નિદણ-ઘાસ એ હું
જાણું છું....

છે દિવ્ય લોકોનાં આશિષ આપણે
શાનો વિષાદ...

બસ પ્રસરાવાની મધ-મધતી સોડમ
જીવનની એ હું જાણું છું....



Preys of Phantom

Face your fears.

By: Pennywise

I have absolutely no recollection of ending up here, in this dark damp place. My eyes don't seem accustomed to the environment around at this moment. Nothing is to be seen. Tilted, I am tied up to something intricate but strong like the tentacles of a jellyfish. The temperature in this unfamiliar dungeon is dropping down by a degree with each passing second, turning me into a ball of numb veins. I am losing my senses. Everything seems frozen. Time has stopped.

Are you afraid of the dark?



Jorogumo- the spider lady

A steady excruciating pain in my spine tells me that I am not dead yet. I try hard to bring together my thoughts as I struggle to hold myself through the threads that try to tear me apart. Heaviness building in my brain with all the tilting adds up to all the physical pain I am enduring, making me long for the ground.

Click-clack. I can hear sounds from a distance.



Source: Google

The clutter of her heels calms me. I go back to the day I first saw her behind a huge pile of books. I couldn't see her but her eyes, alive like a pair of fish, seemed to tell me something before she fell along with the books with a thud. Every person in the library ran to the spot to help her, filling the space between us. Since then, I have seen her on various occasions-each time more splendid than before! With that aura of an orchid, and glory of the sun, only a fool can fail to recognize her. The more I speak of her, the more I want to speak of her.

With the perfect amount of curls behind her ears, she is the most ravishing creature to have ever walked on the face of the earth.

Bang!

A door is flung open and blinding white light burning my eyes to ash gushes in. Through my fluttering lids, I see her silhouette coming to life. But it feels different, distant.

The fur bracelets, the rainbow jacket-

She is the lady of the night. A creature of the dark.

Everything starts making sense. I am inside an arachnid. She is the host, I am the prey. The orb is a fearful spell to feed on my insatiable human flesh, just like of any other hapless man. My temptress has turned into a deadly beast. All I know is that I am in as a feast.

I try to wiggle only to make my situation worse. A slow and agonizing death awaits me. I scream as she starts devouring me. It is unbearable. Feels like a million needles are being poked into me from all sides. The more I move, the more exhausting it gets. I see myself being eaten alive. The scene is horrifying. I am ripped off my own body starting from the legs. I can take it no more. I wish to die. After a century of gore, I finally lose senses before my skull drops down.

~

"Are you okay?", I hear a voice behind me that brings me back to my senses.

I feel a burning sensation on my right thigh from the hot tea that I spilled on myself. I put down the cup I'm holding and reach for the handkerchief. I am not embarrassed, and neither are my parents. This is not the first time after all. If anything, today, I took entire 30 mins before spilling my tea in front of probable in-laws.

I am still trembling when I see her trying to suppress her laughter. It is enough to bring me back to reality.

From pain to pity within minutes.

Hello. I am an otherwise average 35-year-old perfectly healthy good-looking lad and this is an episode from my life.

What you just saw was a glimpse of the greatest

t tragedy of my life. I am terrified of beautiful women. Weird, right? All of them, apart from my mother, tend to become demons that haunt me for life. Who knew that the most mystic folklore and bedtime story would become the frolic tale of my life?

Case in point, the young gentleman who told you about his fear of beautiful women. He is Venstrophobic.



Have you ever felt this? Morbidly afraid of something that doesn't actually pose any threat to you? Have you had a near death experience when you see a spider or a clown or a syringe? Does the thought of going to the dentist scare you to death? Does the mere sight of blood make you dizzy? Chances are that you don't relate to any of this. However, if you have experienced something like this before, you may have a phobia.

What is a phobia, you ask? And how is it different from just plain fear? It's often confusing- the line between a fear and a phobia. Fear is an emotional response to an imminent danger in your surroundings. Fear is essential for survival. A phobia, on the other hand, is when you attach an irrational fear to a physical or abstract object. They fester in your mind to the point that they start affecting your lifestyle, if left unchecked. Case in point, the young gentleman who told you about his fear of beautiful women. He is Venstrophobic.

How do they affect one's life? Take the average Joe for example who, by simply taking the stairs instead of the elevator, makes you spiral down a vicious circle of self-doubt. But what you don't know is that Joe is claustrophobic. He is afraid of confined spaces. The elevator that you so calmly take every day scares the living daylights out of him. The fear in this case is born from being in a closed space, which, in principle is not a real threat to his existence. But the fear that arises from it is real enough to make him take the stairs. And let's drop the pretence and agree that all of us hate the stairs and love the elevator. You're fooling no one when you say that the cardio is good for you.

Take another example of the average Jane who was offered a great job with a huge multinational company. She would be travelling around the globe for a high, five figure salary. I mean, that's the dream, right? Travelling the world and getting paid a busload of money for it? You're happy for her, though not without a slight hint of jealousy. Everyone is talking about how she found the pot of gold at the end of the rainbow. But to everyone's surprise, (and to your secret joy), she turns the job down. You're thinking how crazy she is to reject such an offer (while filing an application for the said job, of course). But Jane has her reasons. She is an aviophobe. She has a panic attack every time her plane takes off and what seems like a dream job to you may be more nightmarish to her than a usual 9-5 in front of a computer dealing with nothing but excel sheets.

See how phobias can ruin your life? From making you take the damned stairs every day to forcing you to turn down a job that almost every human craves for. My point, phobias are serious. And I happen to

know a bit about them which I would like to share with you.

To deal with a phobia, you first need to familiarise yourself with the types of phobias.

So, there are the phobias of animals like the fear of arachnids (arachnophobia), fear of reptiles (herpetophobia), fear of birds (ornithophobia) and many more.

The more common is the category of phobias of natural phenomenon like the fear of thunderstorms (astraphobia), heights (acrophobia), the fear of the dark (nyctophobia) among many more.

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But when you finally do conquer it, the world would be a much better place to live in.

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There are others which are more situation dependent, for example, claustrophobia, aviophobia, gephyrophobia (the fear of bridges and tunnels) etcetera.

Then you have the class of phobias which are related to blood and injuries. To name a few, we have hemophobia (fear of blood), trypanophobia (fear of syringes), aichmophobia- fear of sharp objects such as blades, knives, scissors, swords or anything in general that you can be stabbed with.

Let's talk about a non-technical classification of phobias that I find amusing. Apparently, syngenesophobia- the fear of relatives, is a thing. But I get it. I mean, we are no strangers to the concept of nosy and irritating relatives. There is lipophobia- the fear of getting fat, and it's quite understandable too. I read about Arachibutyrophobia somewhere. I think that the fear of peanut butter sticking to the roof of one's mouth should not have such a cool name.

Next question, how do you tell if you're just mildly afraid of something or if it is a phobia? Phobias can trigger an extensive range of symptoms from mild apprehensions to full blown panic attacks. Physical symptoms of a phobia include difficulty in breathing, elevated heart rate, tightness in the chest, trembling or shaking, dizziness, churning stomach, hot/cold flashes, excessive sweating. Emotional symptoms are overwhelming anxiety or panic, intense need to escape said situation, feeling of being close to passing out and knowing that you are overreacting but still not being able to control your fear. For example, being mildly afraid of an air crash is natural, but going for a one-day train journey just to avoid a two-hour flight may be an indication of aviophobia. Similarly, taking longer routes on a road trip to avoid tunnels or bridges would be suggestive of an underlying gephyrophobia.

Now that you know what types of phobias are there and how to differentiate them from a natural fear, we can proceed to actually tackling it. Most of us have an irrational fear of something. And most of the times, it doesn't affect us to that extent. For a person living in a city, a fear of snakes would not be much of a problem. However, being a claustrophobe would create a lot of difficulties in day to day activities like being in an elevator or a crowded public transportation service or a subway. In such a case, it would be crucial to deal with the situation. A therapist would be a good choice for treating a phobia. However, self-help strategies can be immensely helpful too. They put you in control of the situation and that is essential when dealing with such situations.

Step zero in dealing with a phobia is understanding the situations leading to the symptoms of the phobia. For a person having a fear of flying, the events leading up to a flight- booking the ticket, packing the bags, getting to the airport, getting through the security, getting in the plane, waiting for the take-off would also be frightening. You could make a list of the things that lead up to the final fright that brings you down. Make a ladder; arrange these incidences in increasing order of scariness.



What is fear?

Once you have a list of incidences that scare you, it's time for basic exposure therapy. Start from the first thing on your list. Expose yourself to it again and again in a controlled atmosphere till the time you get completely comfortable with it. Then move on to the next. A controlled atmosphere implies a situation where you are sufficiently exposed to the stimulus, but at the same time, it's up to you when to stop. Repeat this regularly till you think you can face the actual phobia.



Nyctophobia Beware!

While you are in the process, it's perfectly normal to be overwhelmed or to experience severe physical symptoms like palpitation, tightened chest or hyperventilating. These symptoms in themselves are scary too. If this happens, first step would be to seek a safe environment and to calm yourself. To do that, I would suggest the following exercise. Sit or lay down in a comfortable spot. Take a deep breath, hold it for five seconds, breath out. Repeat this till you feel like your normal self. There are countless other techniques out there. Try some of them and see which one you are most comfortable with.

After you have mastered all this, it's time to face the actual demon. It's the same drill

Commonly perceived as the devil of the subconscious, fear is basically Hannibal Bates from The Flash.

drill. Come face to face with the fear, for short periods of time initially, get comfortable with it and come back stronger next time till you have enslaved your phobia. It's a tough road with difficulties that probably no one else could ever comprehend. But when you finally conquer it, the world would be a much better place to live in.

The next obvious question that awaits to be answered is: What is fear?

Commonly perceived as the devil of the subconscious, fear is basically Hannibal Bates from The Flash. A shape-shifting meta-human that can take the form of anything and everything you are afraid of! The thought is definitely disturbing.

Tending to disagree with this misconstrued definition, I would rather consider fear an archangel in disguise- a largely unexplored phenomenon of the human psyche necessary for survival. Fear, a sentiment of threat, is a response to an event of the present, past or anticipated (to occur) in the future. It causes various changes from physiological to behavioural in the body creating a fight or flight situation, something very vital for existence. Symptoms include masking, absconding and in extreme cases, freezing. Unlike other emotions, fear is perfectly portrayed in the movies. The goose bumps, the increased sweating, the heavy breathing, yes! All of these things happen.

Along with us, this response has also evolved with time. Why is the fear of heights more prominent than the fear of flowers? Never questioned this right? Thus, the misconception.

There are two broad forms of fear. Innate and Learned.

Along with us, this response has also evolved with time. Why is the fear of heights more prominent than the fear of flowers? Never questioned this right? Thus, the misconception.

There are two broad forms of fear. Innate and Learned.

Innate fear is the key to our survival. It is the phenomenon of preparedness. Why do you think most of us would run the moment they come across a tiger? Because of innate fear. It is a genetic effect, a result of natural selection that saves us from a terrible death. From the perspective of evolutionary psychology, these fears are adaptations that evolved through the past. These fears are thought to have developed during different time periods. Fear of heights since the Mesozoic period and fear of rats developed during the epidemics are two great examples.

The second type of fear is acquired by an individual during his/her lifetime through various experiences. Unlike innate fear, these are not generally inherited. These fears are related to incidents- mostly traumatic. For example, a child who had been burnt by a hot vessel can fear fire which, indeed, is positive! Sometimes, they are also a result of a historical experience, e.g., fear of Polio among the Americans.

After reading the above paragraph, you will agree with the point I made earlier during this article. Fears are archangels. Then where does the problem occur?

Fear triggers problems when this devil of the subconscious is awakened into the conscious world to form alternate irrational realities called phobias which make us vulnerable to trivial things as discussed earlier in the article. Another common trigger is the fear of unknown, a great research topic for psychological scholars since ages..

Fear is illusion of reality, reality of illusion; the arsenic of our intellect. It is simply what we want it to be

This anxiety feeding fear causes spiralling of the mind by diverting the entire nervous system towards something which hasn't even occurred.

A great medical fun fact we don't know about fear is the release of the fear hormone in amygdala which is actually capable of counter-attacking the phobia virus. All it needs is proper direction.

Amazing isn't it? The very thing that seems like a killer is actually a saviour. Fear is illusion of reality, reality of illusion; the arsenic of our intellect. It is simply what we want it to be.

Let the boggart unleash. Can you patronize it?



The winds of mango shower

It was another boring day at the office.

I was in my car, driving back, frustrated and thinking about deadline of the in-house project being on 17th March, just two days after! On a signal, I saw a boy selling Champak Comics, which once was my best contentment. I used to buy a Champak as soon as it arrived from the market but all the collection was wrecked in the past year floods. It was very hard to catch up with the sort of exhilaration I was enduring. I parked my car on side of the road and legit ran for the comic boy. I bought a few which was available and the way I was going through them, it felt like I am twelve again! Minutes passed while going through the cartoon paper when a sudden haste of wind rushed by, realising what my mother used to call "THE WINDS OF MANGO SHOWER." It was like this wind driving me to a cloud of nostalgia.

This time around I used to prepare for my primary grade final-term examinations. The Mango Shower winds used to insert a ray of excitement and happiness inside me. The winds cheered me up for the forthcoming holidays. The excitement of Summer vacation was very much greater than the fear of sitting into the exams. And when the term ended, the hidden beasts inside all the students used to vent like a silent volcano exploded in a millennium. The satisfaction was beyond any imagination.

Early mornings and the evenings were booked for Cricket. The afternoons were for the prehistoric indoor games. And as far as the nights were concerned, they were for inter-colony badminton tournaments. And at the end, a Gola (kind of an ice dish) treat by the loosing team was like a perfect ending to a perfect day. I cannot imagine any better way of spending the holidays, when at home. Having cousins and colony friends beside me were icing on the cake. Those months used to pass like a flash.

Reaching home, there was a definite enthusiasm. I was happy, I was ecstatic, I was jolly. I was grinning and feeling very light-hearted. The kid inside me was taking over the present adult. I wondered, when a kid, how honest I was, how humble, loving, curious and sometimes cute too. As time progresses, everyone starts putting layers upon themselves, to fit into the standards set by the society, to impress the requisite world. I am now sitting on the exact same chair, at the same corner of my veranda, reading my favourite Champak, facing the same ecstatic Mango Shower. Perhaps the layers inside me seems to drift off and as far the deadline is concerned it doesn't seem so hard now, and with this magnitude of gusto, the kid in me can finish this project in a surprisingly short span of time.

Libraries everywhere are under threat. After all, who needs a library today, when it is possible, without even getting out of bed, to find and read almost any book or article that has ever been published?

The oldest library in the world dates from the seventh century BC, in Iraq, known as 'Library of Ashurbanipal'. Most of its titles were archival documents, religious incantations, and scholarly texts, but it also housed several works of literature. Over time, libraries developed into lavish bookstores housing the bestsellers, must-reads, and a coffee shop in case one wishes to sip into some steaming coffee along with their favorite novel. But now, with increasing technology, one can read millions of books from the comfort of their homes at cheaper rates, using Kindle or a PDF Viewer or simply, using the internet.

A lot of attention has been focused on the way bookstores and publishing companies are managing the e-book revolution. The role of libraries has often been overlooked. These days, you don't have to go anywhere near a library to check out an e-book. You can download one to your digital device in a matter of seconds. But there are no more pesky overdue notices — the e-book simply disappears from your Kindle device when your time is up.

At the same time, the relationship between libraries and publishers has changed. A majority of libraries now have e-books available. According to the American Libraries Association, by the end of 2013, all of the major publishers were offering e-books to libraries.

On the other hand, Internet connections in India are a luxury for a few. Low broadband rates but narrow reach, especially in remote areas, make it inaccessible to download e-books.

On the contrary, there are pros and cons of reading an e-book. Pros would be affordability and easy access.

Reading may be a personal experience, but libraries and bookstores are social experiences.



The British Library

While cons include eye strain if read for a prolonged duration, and that the light emitted from screens can make falling asleep more difficult. Reading may be a personal experience, but libraries and bookstores are social experiences.

The musty stacks, the unexpected finds, the safety and pleasure of a place that welcomes and shelters unconditionally, meeting likeminded people, sharing ideas and book reviews, etc create a wholesome experience that is never found using Kindle at home. Although online book communities such as Goodreads have gained popularity, reading a book in a library and engaging in offline discussions, is an absolute delight.



Why libraries matter more than ever in the age of kindle?

The story of diminishing bibliotheca

By: Kanksha Anjaria

One such 80-year old library of the city, the MJ Library or MJ Pustakalay, hosts more than 7,50,000 books, segregated across English, Hindi, Gujarati, Bengali, Marathi, Sindhi, Sanskrit, Urdu, and French languages.

The library was initiated with a donation of 7000 books by Mahatma Gandhi.

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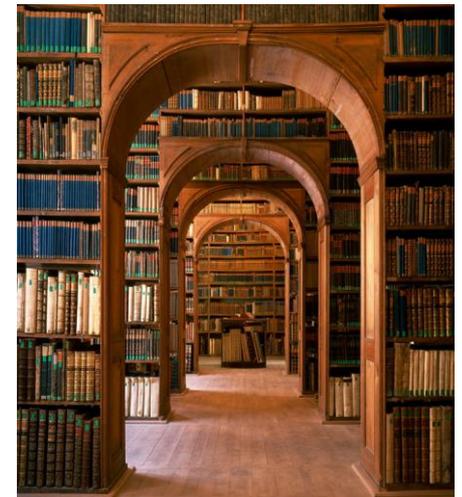
To survive in the digital age and stay relevant, public libraries need to be brave and innovative.

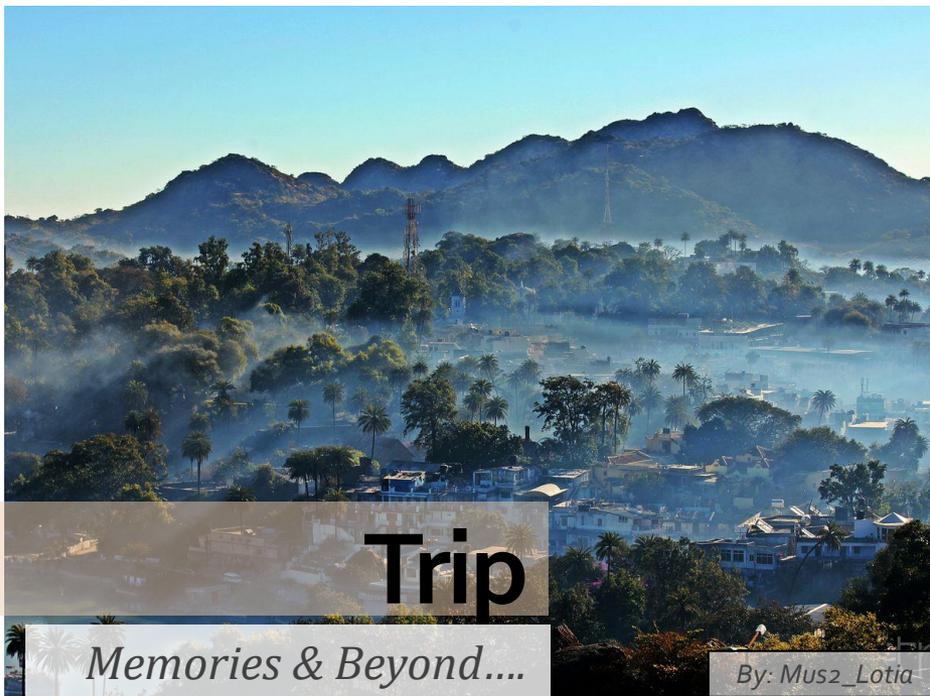
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One such 80-year old library of the city, the MJ Library or MJ Pustakalay, hosts more than 7,50,000 books, segregated across English, Hindi, Gujarati, Bengali, Marathi, Sindhi, Sanskrit, Urdu, and French languages. It's still a favorite haunt amongst students and senior citizens. The library was initiated with a donation of 7000 books by Mahatma Gandhi. It also has a mobile library called 'Fartu Pustakalay'; (meaning, moving library) which runs even today.

The advent of new technology has changed some of our reading habits. But our need for shared, community-centered spaces to find information and connect with others is unlikely to change any time soon. To survive in the digital age and stay relevant, public libraries need to be brave and innovative. They must embrace both the physical and the virtual.





Hey, do you know what is one of the best things about college life? It's the 'Group Trip'. Yeah, my seniors planned a road trip and being a new part of the family, I was also invited. We began from our hostel in the morning and as usual started late. We were all out of our daily hectic routine- with no seriousness, no studies just relaxing and enjoying the environment. After breakfast, we started heading on to our first destination, Mount Abu. Hey, wait, wait, wait! We forgot to start the GPS and realized we were lost!! Oh, this is not a story. And there started a sweet war between two of my seniors. We carefully reached our hotel- driving through mountains, playing cards in the car, having fun, seeing nature, breathing fresh air, clicking many pictures, seeing our ancestors (i.e. monkeys) and much more. Exhausted from the drive we finally reached the hotel, and what did we see? Small cozy rooms surrounded by a garden and a variety of flowers.

Next was a harsh drive by my senior to Guru Shikhar, the highest mountain peak where everyone was yelling at him. Back in our childhood, we ate raw mangoes at the top at 12° C. The view was mesmerizing, it felt as if we would just touch the sky, like carefree birds just ready for their first flight! Where we all were feeling cold, a man was posing for photos bare-chested. Something you would see only in India. The temple there had a belief that whatever you wish gets true if you ring the big bell at the top. What else would you ask for if you get hot Maggie and a cup of tea at the top in this freezing atmosphere?



Climbing down, it was time for dinner. We went to the Nakki lake surrounded by markets. The softy ice cream there is worth trying, yes worth trying! We decided to have dinner after visiting the lake. There was laughter all around, a monkey had fallen on a couple sitting on a bench nearby and the shout of the lady made everyone burst out in laughter. Sitting near the lake, watching the still water, and feeling the cold breeze running through our spines told us to stop the ticking clock and stay there forever. One of my seniors was luckily a palm reader and that was the start of future stories of IITRAM engineers, unbelievable!



Oh, I missed something! Let me take you back. We made a prank call to one of my friends and made him a "bakra". Do you want the details?? Let this be our little secret. For dinner, we had Rajasthani food- dal batti, churma, ghee, etc. Foodies, please have it once. We took soft drinks and went back to the hotel. We all got into one room and started playing "Never Have I Ever". Personal secrets started coming out like vapours from boiling water. Shhhhh, let secrets remain secrets. I was feeling sleepy, so I went off to bed, but they had a session of horror stories that I came to know in the morning. Damn, I missed it, how can it be?





It was early morning and I, with one of my seniors, was out for a walk while everyone else was sleeping. We saw a hill and within seconds made an eye-to-eye decision to climb it. From the top, it was a great sight to see and how could we forget selfies. It felt as if we were born to do this. Never stopping, never fearing, never getting bored.



We then started our journey to the Polo forest. But it would have been unfair if we didn't have a goodbye softy. Reaching the polo forest made us all way too hungry. We had our lunch. How could we miss the forest trekking? Engineering lions were out to roar in the jungle. The guide was explaining us about the wild trees throughout the time. Climbing the hill taught us the importance of every step in life. One careless miss and you are finished.

Do you love echoes? Yes, there was an echo point. Exhausted upon reaching there, we shouted nonsense. The next stop was an old banyan tree. Hey, do you know, bears are attracted to the smell of females. Getting to know this, the girls were scared. And finally, we visited the Jain temple, a step well and an underground cave with a lot of history but no perfect evidence. We also saw black spiders. I love spiders. And with this our happy journey came to an end.

Looking forward to more of such journeys.

You know, I feel trips teach, flourish, refresh, bond and do much more than words can describe. Planning the next trip???

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The Whales do not sing because they have an answer, they sing because they have a song.

-Gregory Colbert

”

Profundity of the Ocean

By:- Aniruddh Sharma

The Polaroid states them as - biggest in size, warm-blooded and the best adapters of deep-sea underwater lying at the top of the food chain and having an important role in the overall health of the marine environment. Unfortunately, their large size and mythical aura does not protect them; 6 out of it's 13 species are classified as endangered, even after decades of protection. The overriding circumstances which have led these mammals to the status of endangered are climate change, commercial whaling and oil-gas development industry. Since whaling has become conventional source of effortless earning and living due to the tremendous mainstreaming of their meat, oil and blubber.

This worsening “Big-Game Hunting” is superintended by the “**International Whaling Commission (IWC)**”, an international body set up by the terms of the International Convention for the Regulation of Whaling (ICRW), which was signed in Washington, D.C., United States, on December 2, 1946 for “providing the proper conservation of whale stocks and thus make possible the orderly development of the whaling industry”.

In 1982 the IWC adopted a moratorium on commercial whaling. Currently, Japan, Russia and a number of other nations oppose this moratorium. Japan has issued such permits since 1986, supported by Norway and Iceland, objection to the moratorium of whales and issue their own quotas.

Apart from International Organizations there are many celebrities, NGO's and conservation societies which are continuously doing their part to safeguard these genus of marine wildlife. One of the well-known luminary is Leonardo DiCaprio. In 1998, he created the Leonardo DiCaprio Foundation to support organizations and initiatives dedicated to secure a sustainable future for our planet. Not only that, till November 10th 2017 his charity has raised more than \$80m to save the World's Wildlands.

To sum up, “Sea Shepherd Conservation Society” an association which is scrimmaging for this whole aquatic sphere is using innovative direct-action tactics to investigate, document, and take action when necessary to expose and confront illegal activities on the high seas. By safeguarding the biodiversity and delicately balancing ocean ecosystems Sea Shepherd works to ensure their survival for future generations.

But still a net of chaos remains, up to what extent can this type of organizations support these creatures for being with us? Maybe human got the best mind in the whole animal kingdom but the vision of science and humanity can gift more in a way which can uplift these giant beasts, averting them to become 'history'.



The Beehives Theory Or Thesis

Chapter 1 :

It is intriguing to write on a topic like this, but are we really at a stage to arrive at an appropriate answer to many of the questions which arise in the minds of youngsters like me!!! But by the way, what's the question. I don't think there's a need to tell you about it, but I have to. It's not a fantasy, a sarcasm, an epic cult classic supernatural view of the universe with several plots and fiction. But it's about what is the reason we all live? Why do we fear death? Why do we fear God and for some, fate? Oh no!! I just used two contradictory words God and fate as per my point of view. What's your stand? Are they contradictory?

Now, who is God?... Just the almighty, the superpower, or the ultimate creator. Are these words describing God clearly and transparently? From my side, it's 'No'. No, they are not, but I have a better view, hope you would like it. For this, first of all, I would like to grab your attention to your daily life experience.

In daily life, I think you might have a way around with a beehive or you would be knowing about it. So, do you notice something? I mean something complex, some rocket science, some HOT (High order thinking) huh!

If yes, then good, If no then very good let me make you have one. What I saw was just above the thinking of social flea pestered dogs. It's just amazing...humor apart, there is an exhibition of a phenomenon which might be the answer to the goal for which we have got this so-called human life.

As nowadays technology has got its superiority in nature, we can give habitat to the bees. We can build their home, provide food to them, security, better living conditions, enhance their immunity, and even make them evolve to some extent. This is the good and the favorable side of the coin.

On the other hand, we are just a threat to their existence, we can destroy them, but their whole peaceful life and species to the verge of apocalypse, make them extinct, we are this much power over them.

By: Shresth

But suddenly a question arises: Why am I wasting your precious time on such useless stuff? you might also be abusing me at this time, I would like to suggest you have the patience or you would lose very stunning stuff. Coming to the point, I want to say you no-no...I am asking you that, Why are we just not extinct? Why do we have artificial beehives on farms?

At first, you must feel bored to answer. But you will answer honey, that's it, this what I intended to make you understand. See, we are very superior to the bees but still, there is one thing which we can get from them only and we practice the purest form of honey without the bees. We are having them for honey.

Are we just bees living in complex colossal structures?



Just the same is our existence, so now what do you think? Who is God? Is it just the almighty Jesus, Lord Rama, or Allah? Why did they all create us (according to the myths)? They are superior to us as said in many holy books of different religions. The answer is to get honey. No, no, no... it's not honey in this case, here it means something which they can only get through us, we can only create stuff. Maybe this is the reason why we are living this life. We are just supposed to reach the point and make them have what they want from us. We either pray to God due to devotion or as a convention. Devotion is the act of dissolution of the mind, body, and soul in the object of devotion. You find two types of people in devotion, one faking to be a devotee because they fear God and his unquestionable powers and the other are the ones who don't even care what the world thinks about their act of devotion...



Not just a timber frame
Hung on the barricade
A look at the trim, a soft giggle
Can make the heart dwindle
Fingers glide against the gossamer
Yet again, feeling the young summer
Within this damp room
It brings back memories from the coomb
Full of laughs, that now wry
With time beseeming cries so dry
Here it does it again, arouses the winds
The ones I try to hide behind my blinds.

“Look at us”-its all in the past
But the cardboard doesn't make it seem
so;
What a contrast
Now we are all overseas, some in Canada,
Some in Atlanta
Flown away far and distant
Like the migratory Branta
I see no color, no black- no white, just
undyed
Grey lines running free and wide
I avert myself from all these strangled
feelings
Equivalent to a thousand killings
For years and years, the cracks and
crevices-hard and rough
Have cushioned the cheers through
times- tender and tough
I shive it in the bag, pick up the telegraph
Because it is no more just about the
photograph.

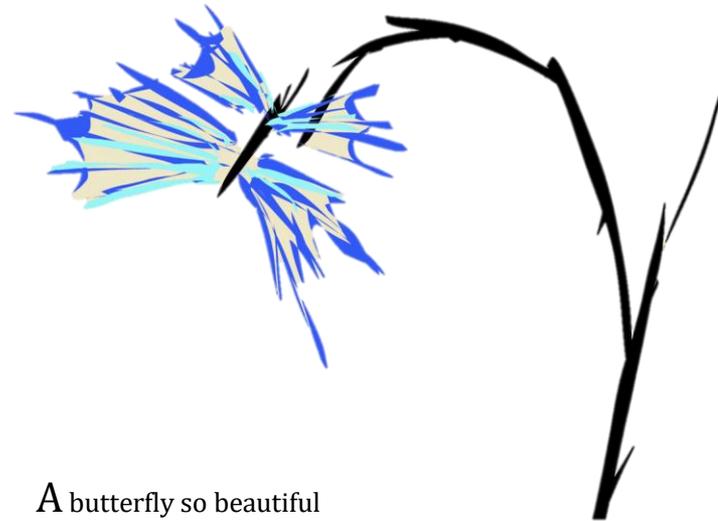
PHOTOGRAPH

By: Harshini Kolte



Butterfly

By: Priyam Duggad



A butterfly so beautiful
Happy and colorful
Out of the dark shadows
Over the green meadows
flying Under the blue sky
Bringing smiles to faces
All around the world
Will touch the sky one day,
when the baby butterflies will say
I want to be like her
I want to fly like her.
and touch the sky like her

I lived in a small town called 'Loni (Takli)', in the Vidarbha region, Amravati district Maharashtra. This comes in a partial dry area, rainfall is fairly good but during the summer season, we face scarcity of water. Due to the COVID-19 pandemic, we all were advised to go home and the whole country went into lockdown. So, during this period, I tried to write this article on an initiative to save water which I followed at my home and would like to share this simple approach to make our home sustainable.

1.0 Water Alarm

We have installed two elevated water storage tanks for domestic and drinking purposes. The yellow tank has a capacity of 1000 litres placed on the first-floor slab level and the blue one is a 700-litre capacity tank placed on the ground floor slab level as shown in figure 1.



Figure: 1 Elevated water tanks (a) 1000 litres on first floor slab (b) 700 litres on ground floor slab.

Every time, when water is supplied from ESR (Elevated storage reservoir) of our town, we fill our tanks till the surplus flow water comes out of the top opening, which indicates the tanks have been filled completely and then we switch off the water pump. We had been doing this for the last 5 years and it used to waste a lot of water. Then, I searched for some water alarm systems on the internet and found one, an overflow water tank alarm system which is very easy to install. Whenever the tank fills up, the alarm goes off, saying "Water tank is full, please switch off the motor." (in both Hindi and English). The alarm machine only requires two AA of 700mah batteries and it will last for about 6 months. This machine works on a principle that when the water touches the sensor (pin connector /pin plug as shown in figure 4) its circuit closes and the machine (shown in figure 2) gives alarm by means of audio output. We are using this machine for the last 3 years and I personally feel satisfied with saving a lot of water.



Making Sustainable House-A Small Step



**Ram Wanare
(Research Scholar)**



Figures 2-4 show the alarm machine installed in my home, cable connection from alarm machine to the water tank, and the cable with sensor (Plug Pin) mounted at the top (near top cap) of the water tank respectively.



Figure: 2 Alarm machines (a) for 1000 litres at first floor slab (b) for 700 litres at ground floor slab



Figure: 3 Cable arrangement (a) Connection from tank (b) Cable form tank toward alarm machine



Figure: 4 Arrangement for plug pin (a) Outer view of 700 litre tank (b) Inner view of 700 litre tank

Seven years ago, we measured TDS (Total dissolved solids) of our drinking water and we found that it crossed 900 mg/litre. Then we bought RO (Reverse Osmosis) system (shown in figure 5) to minimize the TDS for drinking water. Which is connected to 1000 litre capacity overhead tank (see Figure 1(a)).

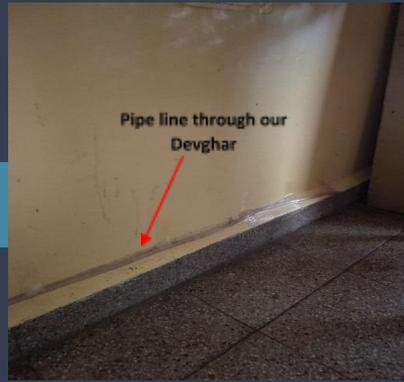


Figure 5: RO System installed in home

This machine has various membranes from which the water is allowed to pass removing the excess TDS and pathogenic bacteria. Filtered water (drinkable water) is collected in the reservoir as shown in Figure 5. RO rejects non-drinkable water that comes out of another outlet. During the lockdown, I wasn't engaged in any particular activity. So, I decided to measure the rate at which water is collected in the drinking water reservoir and rate of water rejection. I observed that out of 1000 litres of water, we were getting only 250 litres (25%) water for drinking and the rest (i.e. 750 litres) was getting wasted. So, I decided to use this non-drinkable water. I bought 60 feet plastic pipe of 1cm diameter and connected it with non-drinkable water outlet of RO as shown in figure 6 (a) and extended this pipeline to my garden as shown in figure 6 (b, c, and d) and figure 7 (a, b) shows the pipeline connection for non-drinkable water to my garden.



a



b



c



d

Figure: 6 Extension of pipeline towards garden (a) RO Rejects (b) Pipeline through Devghar (c) Pipeline through open space (d) Connection to the main supply pipe towards Garden



Figure: 7 Location images (a) Space between home and Garden from which an underground pipeline has made (b) Satellite view of Home and Garden



Figure: 8 Garden Images (a) Water taken out from RO tank for gardening (b) Beautiful maintained Garden during summer season

This system is working smoothly and whenever we fill the 1000-litre water tank, we are getting the satisfaction that 75% of that water is supplied to the garden for trees and percolation. As the non-drinkable water has a very high TDS value, it is not applicable for small plants directly but we can use it for percolation and watering the bigger trees. We are using these simple approaches to save water. My intention is not to give technical details and promote the equipment/devices but to show the simple approaches to maintain nature's equilibrium. Thank you for reading.

Have you ever imagined this? A bullet hitting another moving bullet?

Well, a missile hitting a satellite is even more difficult!!

On the 27th of March, 2019, India "ANNOUNCED" to the world of her entrance as the only 4th country in the world, having the capability to shoot down satellites in space (Yep, now even they can't escape.) A great step towards the technological and strategic development of our nation in the realm of Space Technology. In this ASAT (Anti-Satellite) missile test, named Mission SHAKTI (It should've been "*Space-Shakti*"), the missile shot down a live satellite in the Low Earth Orbit (LEO) at 300 km in space.

Coming to the "bullet" example, an LEO Satellite travels at a speed of around 30,000 km per hour, and the satellite, Microsat R, which was hit, was at a distance of 300 km in space. The astonishing thing is that the mission got completed in just 3 minutes!! But, in those 3 minutes, the satellite would have travelled another distance of about 1500 km (because its speed is about 30,000 km per hour).

So, at the time of the launch itself, the missile has to pre-determine or precisely estimate in advance, the expected position of the satellite at the time of hitting the target. And, this estimate has to be very accurate since the satellite itself may be of the size of only a few meters. Hitting an object of a size of a few meters when it covers 1500 km distance since the launch of the missile! Well, you can imagine how accurate the position estimated has to be. The level of precision has to be incredibly high.

To give a very rough and crude example, you fire a bullet from Delhi to hit your target in Mumbai, but by the time the bullet reaches Mumbai, your target is in Kolkata!! Adding to the complexity, the target is itself quite small; so you need to take into account all these factors before you fire your bullet!! (Feeling like Einstein??)

Thus, it's a very challenging task to hit a satellite with a missile. It requires quite an advanced technology. And hence, unsurprisingly, only 3 countries, namely USA, Russia and China were able to achieve this feat.

India now joins this exclusive club of **Space Power** as its 4th member.

But there are some questions that we need to answer...



A
bullet *hitting*, a
"bullet"...

-Rushabh Sagara

We can shoot down satellites now, so what ?

Nowadays, a satellite is one of the main infrastructures of any country. Applications varying from navigation systems, communication networks, broadcasting, etc to your and my internet to banking systems, stock market, disaster management and many more depends on the nation's satellite!! So, by "merely" destroying a satellite of a country, we can literally cripple the whole nation and bring it down on knees, that too, without harming any human life!!

But did we break any "International Space Law"?

Almost every country wants the Space to be an epitome of silence and peace, and had spoken against the weaponisation of it. There are various International treaties that governs the use of space, like the Outer Space Treaty of 1967, which, in laymen terms, prohibits any nation to place any weapon of mass destruction in space or on any celestial body, like our Moon. The celestial bodies can be exploited, exclusively, for peaceful purposes. But the good news is that India had not violated any norms as no treaty (till now) prohibits the testing or development of systems like ASAT. But apart from that, still there is one issue that needs attention... **SPACE DEBRIS.**

What is Space Debris?

Well, this is an altogether a topic of another discussion, but in brief, it is nothing but *Space-junk*. We all know that to just clean an India, it can take a whole new and magnanimous movement like *The Swachh Bharat Abhiyaan*, then what about cleaning the space? It have the horror of its own, when instead of *Twinkle Twinkle Little Stars...*, kids will sing *Twinkle Twinkle Little Scraps...!!* Just to give an idea, in space, currently, there are around 20,000 debris of the size of a golf ball, and other more than 7,00,000 objects weighing around 6000 tonnes!! It provides a real threat of collision to the operating satellites in space, which was very effectively demonstrated in the Oscar winning film, *Gravity*. Nonetheless, the satellite that was destroyed under the Mission *Shakti*, was in LEO, and hence the debris created through its destruction, is estimated to burn and dissipate much faster.

Now what's NEXT ?

Mission *Shakti*, very efficiently addressed the world of what India is capable of, but in the upcoming times, India should focus on International treaties prohibiting any further "weaponization" of space and should move further in the direction of peaceful and fruitful development. The words of Ban Ki-Moon, former UN Secretary General, when he was speaking on the issue of increasing Nuclear weapons, perfectly illustrates the scenario, that,



"The World is Over-armed and peace is Under-funded..."

अधुरा

तकिए सिरहाने रख कर तेरी यादें,
सपनों में पूरे करेंगे तुझेसे,
किए वो सारे वादे,
छोड़ ना जाना मुझे तू कहीं,
एक वादा किया था हमने ये भी,
गुम हो गया तू फिर भी यहीं,
पल भर क्या धुंधली हुई जो आंखें,
आंखों को नम कर ओझल तू हो गया,
किस्से जो पूरे किए साथ हमने,
इन किस्सों के हिस्सों में तूरह गया,
किस्से जो पूरे करने थे साथ तेरे,
उसमें तेरा हिस्सा अधुरा रह गया,
धागा जुड़ा था तेरे मेरे बीच,
ना जाने कैसे टूट गया,
जुड़ा था में तुझेसे, टूटा हूं में अब,
तेरे बिन मैं भी अधुरा रह गया ॥

By: Jitendra Kumar



Art by Xitij .

Bird's Chirps

- Mudra Patel

Sometimes becomes Melody
Which your ears want to hear,
Sometimes becomes Discord
Which your ears don't want to hear,
From the Nests hidden in trees,
From soaring high in the sky,
The only Music with Harmony
Whenever it is sung,
To welcome every Dawn and Dusk
The song that is sung,
That will make you mad in its love
Is the Chirps of Birds you hear
Every day with your Ears.



Ever wondered why India produces less Entrepreneurs?

By: *Abhilash Maurya*

India has recently banned Chinese apps which include major platforms such as TikTok and Weibo. It started a debate arguing why doesn't India have such companies?

From a young teenager to an adult using a mobile phone, everyone seems to have an opinion about it. I have tried to take another approach. Instead of complaining about this problem, I went deep to find reasons why India lack entrepreneurs from the societal and educational point of views. Certainly, India doesn't lack talent. If you look at big companies such as Google, Microsoft or even government agency NASA, you will find Indians contributing at every level of those companies. So, what is stopping Indians from starting their own business?

~Lack of Business courses in schools:

There are no business courses involved in Indian schooling system. It is all about knowledge. The more you learn, the better you are. Business education is considered to be something which can only be taught in colleges. Business schools cost a lot of money and there is huge competition if you want to get into a good one. The myth of being a business school graduate to start a business has to leave. If you look at the data then we see only a quarter of the 50 unicorn startups with the world's highest valuations with at least one MBA as a founder, according to data analyzed by Bschoools.org.

~Promoting memory skills:

Innovative thoughts can be more or less considered a curse in Indian education system. A kid has so many questions but as he grows up he doesn't have any. Schools focus more on bookish knowledge. Closed book exams are ruining everything as they force students to memorize things rather than solving problems. Questions asked in exams should be design based. It can be done in any subject where students are forced to use their innovative thoughts. There will be no incorrect solutions, and you will see something that fixed answers will never give. Remembering some formulas and just using them to get marks is not doing any good. If you ask someone whether you need a high-end processor or a large size storage device, they will always prefer the former.



~Media industry: It's common to see interviews of political leaders and Bollywood personalities in electronic/print media. But it's so rare to witness any businessman on Indian TV channels or in printed media. There are so many startups by young entrepreneurs, imagine if a young kid reads about any of the startups, it will inspire him to do something. But what we see in printed/electronic media is just gossip and political debates.



~**College counselling:** I have seen so many brilliant students getting very high marks in various entrance exams, but they don't know what they want to study. I am from an engineering background, so I'd give an example from this field. Joint Entrance Exam (JEE) is conducted twice a year for admission in undergraduate engineering courses in top engineering institutes. More than 8 lakh students give this exam each year. After exams, students have to select which college as well as engineering branch they want. Most of the students get stuck at this point, and they choose something by just following the trend but as they spend a semester in college they realize it is not something they really wanted. Let me tell you a common misconception which happens often. Students who wanted to study automotive design gave JEE exam but while filling the counselling form they don't find such field in there as there is a different exam for designing colleges. We are having a large number of students in the wrong places. You can easily observe by the fact that large number of UPSC and MBA candidates are actually engineers. There has to be a counselling system for students. Students should be made aware of the possible career options while they are in school itself.

~**Society:** We as a society are also the problem. Do we support someone who's starting something new? The answer is definitely a No. I have seen people feeling jealous just because someone is doing better than them. We have to be supportive, and we have to accept that everyone is struggling. Entrepreneurship is considered to be difficult and one of the reasons being people around the person themselves. Students are in fear to share their work because others will copy or try to put their name on his research. It is getting common. We have to be supportive and make them believe we are with them.

India has so much potential. People with vision need better pathways, better mentoring and better environment. There are so many wrong things which we can not change but there are many Indian entrepreneurs who are doing amazing work and making all of us proud. So, there's a hope and let's align ourselves with that. Who knows the next Entrepreneur could be one of us?

A portrait of Jack Ma, the founder of Alibaba, smiling. He is wearing a blue and white striped collared shirt under an orange sweater. The background is a light blue gradient.

What Makes Alibaba's Jack Ma a Great Innovator?

Animesh Rathi

How on earth, you might ask, did a one-time English teacher become the most mammothlike successful entrepreneur in the world's biggest country, about to have a multibillion-dollar initial public offering for a business, Alibaba, that has disrupted numerous industries. An English teacher became, in the words of the *Washington Post*, "a larger-than-life figure who has been likened to the godfather of Chinese entrepreneurship and attracted the loyalty of employees and customers alike with a showmanship that sometimes borders on the bizarre."

In fact, Jack Ma's becoming an English teacher was an extraordinary accomplishment, and just one of the first of many unlikely shows of amazing ambition and drive and focus that brought him to where he is today. It only happened because as a child he was already seeing a future far beyond anyone around him and doing all it took to get there.

He was born in 1964 to parents who were professional performers in a kind of traditional musical drama that was banned during his childhood. In a country still mostly isolated from the rest of the world, he somehow knew he had to learn English.

For nine years he got up early every morning and rode his bike to the Hangzhou Hotel, where he befriended foreign tourists and worked for free as a tour guide in order to practice English.

After twice failing China's national university entrance exam he was eventually admitted to Hangzhou Teacher's Institute, where he graduated in 1988.

He even claims, perhaps excessively, that he was rejected by Harvard 10 times: "Nobody said that I would be a very capable person that would do something significant or meaningful in the future." But for a man of his vision and drive, one thing led to another: He went to America in 1995 as a translator in a business negotiation and got a first glimpse of the Internet, which was virtually unknown in China. Back home, he tried to set up a kind of Chinese yellow page and failed. He went to work for the government and got assigned to take an American visitor to see the Great Wall—none other than Yahoo co-founder Jerry Yang, with whom he struck up a lasting friendship. By 1999 he had seen enough to found Alibaba, "with 17 other people, raising \$60,000 on the vague notion of helping Chinese companies connect with the world," as Gady Epstein wrote in *Forbes*.

As a child he loved martial arts and kung fu novels. He gives employees kung fu nicknames and calls himself "Feng Qingyang," which, according to *The Financial Times*, "comes from a reclusive swordsman character who was unpredictable and aggressive." He took on eBay in China and vanquished the giant by refusing to charge either sellers or buyers on his own website. People thought that was crazy, but Taobao grew into a giant revenue producer with its search and display ads. "With eBay he liked looking foolish and stupid," a former employee, Porter Erisman, told *The New York Times*. "From a Wall Street Investors' perspective, he was willing to run Alibaba into the ground to defeat eBay—the only thing worse than a smart competitor is a crazy one who is willing to just spend all their money with no hope of making a profit." Or, in Ma's own words: "I had always wished that I was born in a period of war. I could have been a general. I thought about what I could have achieved in war."

His triumphs have continued to where, in the words of *Forbes'* Rebecca Fannin, "Alibaba is a combination of eBay (Tao Bao), PayPal (AliPay), Amazon (Tmall, Aliyn), Orbitz (Taobao Travel), and Google Play."

Two other qualities stand out in making him a great innovator, beyond his vision—which ultimately, like that of Steve Jobs, is inexplicable. First, like Jobs, he has a gift for seeing very clearly and simply. He doesn't complicate matters unnecessarily. He came up with the name Alibaba for his business because "E-commerce is global, so we needed a name that was globally recognized." According to *The New York Times*' Sydney Ember, He said he was sitting in a coffee shop in San Francisco and thought of the name Alibaba and decided it would be a good one for his company. He said he asked a waitress whether she recognized the name and she said yes. . . . He added: "Nothing is more powerful than taking a word with a strong, specific connotation, grabbing a slice of it, mapping that slice to a portion of your positioning, and therefore redefining it. This naming strategy is without question the most powerful one of all."

Finally, as with many of the greatest innovators, his vision goes beyond business, to widespread social betterment. Like his fellow business titans Bill Gates and Michael Bloomberg, he has followed extraordinary success with a mission to leave a broader legacy. After stepping down as Alibaba's chief executive—he remains chairman—he has announced that he'll give several billion dollars to finance environmental, medical, and educational projects. He has been named chairman of the board of the Nature Conservancy in China, having "grown increasingly concerned over rampant pollution of the soil and water in China, something he has partly blamed for his father-in-law's recent death from cancer."

That drive to help others while building great enterprises is nothing new. According to *The New York Times*: Mr. Ma "wasn't the type of person who starts a business keeping 90 percent of the equity for himself and really hoarding all of the wealth and riches," said one Western executive who has known him for over a decade, declining to be named because of his company's policy against speaking publicly about business contacts. "In the earliest days, when Alibaba.com was first forming, he was giving equity to all of the high school students who were working with him," said the executive. "He was bringing everyone along."

In fact, he's ambitious enough to hope to lift his whole country: "Just as the internet is revolutionising retail," Mr Ma wrote, "we at Alibaba believe it will eventually do the same to fundamentally information-driven industries such as finance, education and healthcare. Once this change happens – once we are all connected – I believe the spirit of equality and transparency at the heart of the internet will make it possible for Chinese society to leapfrog in its development of a stronger institutional and social infrastructure. . . . Our water has become undrinkable, our food inedible, our milk poisonous and worst of all the air in our cities is so polluted that we often cannot see the sun," he wrote. "Twenty years ago, people in China were focusing on economic survival. Now, people have better living conditions and big dreams for the future. But these dreams will be hollow if we cannot see the sun



"I want to change history, do something important in my life, and influence individuals like we have with millions of small businesses on Alibaba. Then they love and respect you because you made their life important." – **Jack Ma**

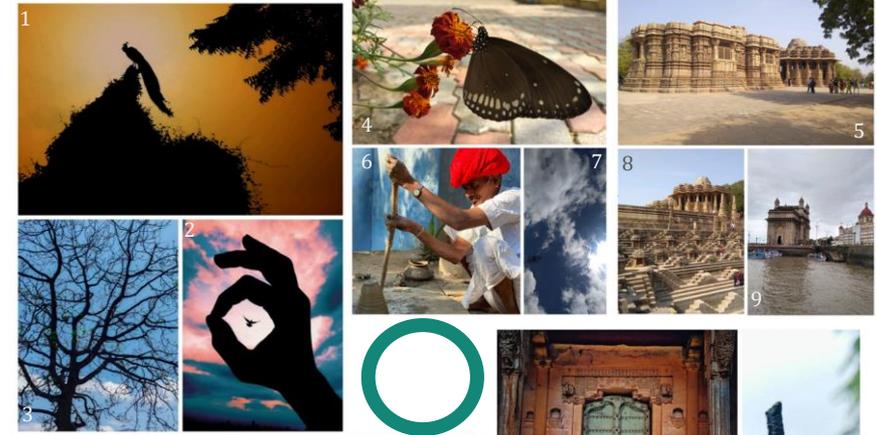
AB THEHER JAO

By: Priyam Duggad

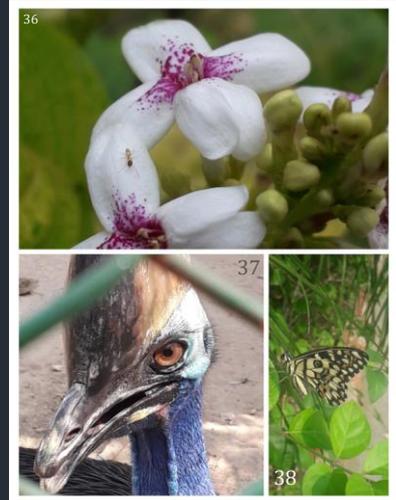
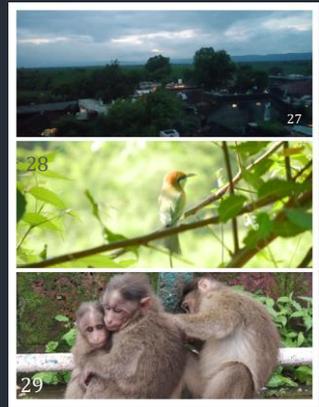
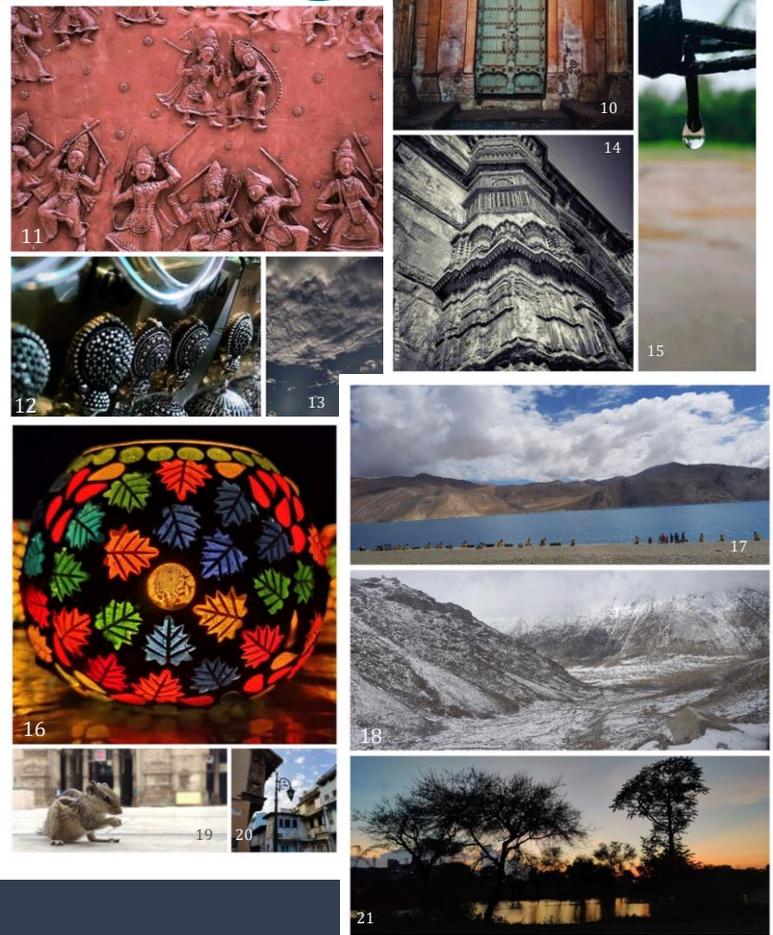
Pyaar aur sapno ke peeche bhagte hue thak gaye hoge,
Ek gehri saans lo, aur theher jao.
Naa peeche dekh ke afsos karo,
Naa aage jaane ki bewajah parwah.
Jinhone tumhara yahan tak saath diya,
Unke liye naa sahi, toh khudke liye hi sahi,
Zara muskura lo.
Aaj theher jao.
Thoda waqt apno ke saath bitao,
Thoda waqt apne liye bhi nikaal lo.
Jitna dusro ke liye raaton ko jaage ho,
Kabhi khudke liye utna hi aaram kar lo.
Aaj theher jao.
Jo galtiyaan tumne ki hai,
Unke liye khudko maaf kar lo,
Jinhone tumhe dukh diya hai,
Khud ke mann ki shanti ke liye unhe bhi bhool jao.
Aaj theher jao.
Ab apni aankhe moond lo,
Aage ka safar mushkil hai.
Kal phirse aage badhna hai,
Sapno ka peeche karna hai,
Yahi soch ke...
Aaj theher jao.
Pyaar aur sapno ke peeche bhaagte hue thak gaye
hoge...



Art by Harshini



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Shutterbugs – The Creators

Image 1, 2, 3: Ujwal (Sem 6)

Image 4: Maitri Patel (Sem 6)

Image 5, 8, 9: Mudra Patel (Sem 6)

Image 6: Malhar Solanki (Sem 4)

Image 7: Pranshu Soni (Sem 8)

Image 10, 14, 15: Tej Patel (Sem 8)

Image 11, 12, 13: Purva Desai (Sem 4)

Image 16, 19, 20: Rushil Shah (Sem 6)

Image 17, 18, 21: Rushi Jani (Sem 8)

Image 22: Anjali Gupta (Sem 8)

Image 23: Akshat (Sem 4)

Image 24, 25, 26: Bhumika Dattani (Sem 8)

Image 27: Aditya (Sem 4)

Image 28: Ameya Gadkari (Sem 8)

Image 29: Atharva Karhale (Sem 4)

Image 30, 32: Divyansh Anand (Sem 4)

Image 31, 33, 34, 35: Kunj Shah (Sem 8)

Image 36, 37, 38: Manu Singh (Sem 6)

एक छोटा सा सपना है अपना

एक छोटा सा घर है अपना

छोटे से कस्बे में रहता हूँ

पर सपना है मैं बड़ा बनकर दिखाऊँ

फिर मैं स्कूल पढ़ने गया

जहाँ गुरुओं से ज्ञान मिला

पढ़ने में अच्छा था नहीं

पर हाँसला था अच्छा बनू

कुछ क्लासमेट से दोस्ती हुई

उन दोस्तों से पढ़ना सीखा

एक छोटे से सपने को लेकर

आसमानों में उड़ना सीखा

आज भी छोटे से सपनों को लेकर

उमंगों से मैं पढ़ता हूँ

न चिंता है, न कोई दुःख है जिंदगी में

न किसी से है मेरे मंजिलों की लड़ाई

बस है मुझे वो बनना,

जो मेरा है एक सपना

छोटी सी उम्मीदें हैं, है छोटा सा एक सपना

उस सपने में मैं आज भी हूँ जीता

एक छोटा सा सपना

By: Jitendra Kumar



Hostel ni Moj

By: Maitri Patel



By: Arif

Zidd hai ke ab safar toh unhi k sath hoga
Zakhm kamai bahaut hui ab zakaat hoga

Kuch roshni chirago se chura laya hu m
Ab sitaro ko khatra h unka kya hoga

Tere labo ki adat kyu lagi h mujhe
Ab chai pine se bhi mera kya hoga

Bann kr deever khade the teri hifazat ko hum
Dua karte h tumhe vo manzar yaad hoga

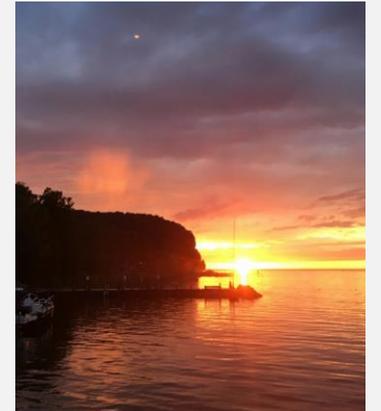
Churi m dhaar bhi aur aankho m aftaab hoga
Katil ab vo nhi uska mureed-e-yaar hoga.

આજે છૂટ છે બાગમાં જવા માટે;
પણ મજા નથી, ડીચકા પર પહેલા બેસવા
જવા જેવી...

રવિવારે વહેલા ઊઠવું નથી પડતું. " યા-
ખાખરા" માટે;
પણ મજા નથી, ક્વાકો સુધી બેસી વાતો
કરતા યા પીવાની...

દરરોજ સાંજે પ્રાથના માટે siren નથી વાગતું;
પણ મજા નથી, પ્રાથના અમુક લીટીઓ જોર
જોરથી ગાવાની...

મોબાઇલ છે ઘરે વાતો કરવા માટે;
પણ મજા નથી, વાતો કરવા માટે ફોન ના
વારા ની રાહ જોવાની...
ખાવા માટે જોઈએ એ મળે છે;
પણ મજા નથી, ઘરે થી આવેલા પાર્સલ ના
ખાવા જેવી...
ગીત સાંભળવા માટે સ્પીકર પણ છે;
પણ મજા નથી, રાજુ કાકા ના રેડિયો જેવી...



COMIC STRIPS

Am I ugly?



What?! Why do you think that?!

Well...



I'm flabby...

I am short...

I have crooked teeth...

I have hair in weird places...

I...I wish I could tell you that you're beautiful and it would fix things...

...but I'm not sure if you'll believe me right now...

I...can't.

The world does judge a lot... and I'm guilty of that too!

Okay stop! I didn't realise you thought that!

I can go on...

It's just... It's so unfair! I try hard but... I'm always ugly!

I can't change the world...but I can change me!

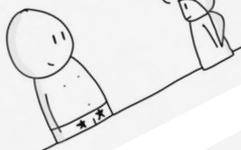
And maybe then you'll believe me when I call you beautiful!

1

2

Hi!

Hello!



How are you?
I'm good!
You?



Should I...
tell how I
really am?



"THE WEEKLY EXISTENTIAL
CRISIS HAS HIT AGAIN..."

Should I...
talk about how
lonely it's been?



"I HAVEN'T SEEN MY
FRIENDS FOR SO LONG..."

Should I...
talk about my
fears and anxieties?



"I'M NOT ABLE TO SLEEP
THESE DAYS..."

Oh wow...she
wants to know
how I am!

Should I...



Nah...
She'll just think I'm
weird and a loser.
And I don't want
to impose!

I'm good
too!



By- @cynyassy

:: गजल ::

दिल की वेदना को चस्त्रि स्वरूप प्रदान करती हूँ
मैं अफसरी की आपखूदी को कलम से जवाब देती हूँ
मैं दिनकर की रत्नावली हूँ, मैं प्रेमचंद की बात हूँ
मैं गजल हूँ, दो पंक्तियों के बिच कहानियाँ लिख देती हूँ॥

स्व से दूर, सर्व की ओर यात्रा करती हूँ
मैं जीव से अलग शिव के कल्याण की बात करती हूँ
सहज की गुणगान करता हूँ, प्यार से प्यार की बात करती हूँ
मैं गजल हूँ, खुद से खुदों की मुलाकात करती हूँ॥

— @nimit_matr

* दीकरी *

दीकरी छे त्यांज सारा योधडिया लागे छे,
भाकी तो सूना डवे भावी इणीया लागे छे.
दीकरी तारी वात पण डुं लभवा बेसुं त्यारे,
शब्द भूटे आंभ ३ठे अधूरा भडिया लागे छे.
तुं डसती ने डसावती तुं भिलतीने भीलावती,
अेज धरमां आंजे रडता भेज वाणा नणियां लागे
छे.

डेवी लागे आ विदाय तमारी कपरी आंजे,
आंभमांथी वडेता आंसु पण आंजे दरिया लागे
छे.

YourQuote.in

— Bhumika Dattani