



बेस्ट

PAMPER YOURSELF
AT THE TAT



I ♥
MUMBAI



BUILD SANDCASTLES
ON JUHU BEACH

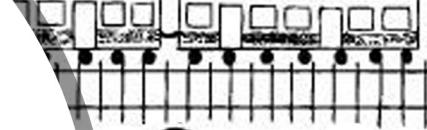


LISTEN TO
RAJABAI
CHIME

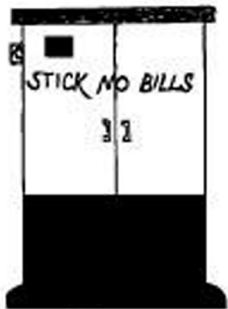
MUMBAI,
FULL OF ENERGY

ZEAL 2022

CATCH A LOCAL



DANCE IN THE
RAIN



SNACK ON
SOME
VADA PAV



SLURP A
GOLA



BARGAIN AT
FASHION STREET



CRUISE
DOWN THE SEA LINK

ZIP
THROUGH
TRAFFIC
IN AN
AUTO



6TH EDITION



OUR FOUNDER
Late Dr. Patangrao Kadam

मानाचा मुजरा...

मा. डॉ. पतंगराव श्रीपतराव कदम भारती विद्यापीठ शिक्षण संस्थेचे संस्थापक, राष्ट्रीय काँग्रेस पक्षाचे ज्येष्ठ नेते आणि महाराष्ट्राची शिक्षण संस्था आज जितकी प्रबळ आणि कार्यक्षम आहे त्यामागील एक महत्वाचे शिल्पकार म्हणून ओळखले जातात. एवढं महत्वाचं व्यक्तिमत्त्व असून सुद्धा आपला परिचय मात्र अगदी विनोदी पद्धतीनं करून द्यायला कधी ते चुकले नाहीत.

'माझ्या गावातला मॅट्रिक झालेला मी पहिला. पुण्यात आलो आणि जेथे एक खडा मारला, तर दहा विद्वानांना लागतो, अशा सदाशिव पेठेतल्या एका दहा बाय दहाच्या खोलीत विद्यापीठाची स्थापना केली,' दिवंगत ज्येष्ठ नेते डॉ. पतंगराव कदम आपला परिचय करून देताना हमखास अशीच सुरुवात करत. एका गरीब शेतकरी कुटुंबात जन्म घेतलेल्या कदम सरांनी केवळ राज्यच नव्हे, तर देशाच्या विविध भागांतही शिक्षणाचे अक्षरशः साम्राज्यच उभारले. वाडवडील किंवा घराण्याचा कोणताही आधार नसताना कदमसरांनी राजकीय-सामाजिक आणि शैक्षणिक क्षेत्रात अनेक वर्षे आपले पाय घट्ट रोवले.

एकूणच जवळ जवळ प्रत्येक क्षेत्रात आपला प्रभाव आणि वाखाणण्याजोगी केलीली कामं एका अर्थाने आजच्या तरुण पिढीला फार प्रोत्साहन देतातच पण त्यासोबतच काम करत राहण्याची उमेद सुद्धा देतात.

शून्यातून आपले संपूर्ण जग उभारण्याची शिकवण कदमसहेब देऊन जातात, एकाच क्षेत्रात जम न बसवता अनेक क्षेत्रात तसच प्रभावीपणे काम करण्याची शिकवण डॉ. पतंगराव कदमसर देऊन जातात, स्पष्टवक्ता आणि रोकठोक असणारा माणूस सुद्धा प्रेमळ असू शकतो हे कदम सर त्यांच्या कामातून आणि वागणुकीतून दाखवून देतात.

१९६४ मध्ये एका लहानशा खोलीतून सुरू झालेलं भारती विद्यापीठ आज आभाळाला सुद्धा पेलवणार नाहीत इतक्या उंचीवर जाऊन बसलय ते पतंगराव सरांच्या सिद्धांतांच्या जोरावर .



Dr. Vishwajeet Kadam

Secretary, Bharati Vidyapeeth Pune

Minister of State - Social Justice and Agricultural & Co-operation

Govt. of Maharashtra



Dr. Vilasrao Kadam

M.Pharm, PhD

Director, Bharati Vidyapeeth Educational Complex,
Navi Mumbai

From Director's Desk

It gives us immense pleasure to introduce Bharati Vidyapeeth College of Engineering, Navi Mumbai, an institute that strongly believes in 'Social Transformation Through Dynamic Education' and constantly strives to scale the peaks of excellence. A vital link in the chain of prestigious Bharati Vidyapeeth institutions, Bharati Vidyapeeth College of Engineering has come a long way since 1990 and we heartily congratulate our competent and devoted faculty members, staff and students for the splendid progress of our College. On behalf of our institution we welcome you to join us and become a partial member of our Bharati Vidyapeeth family.



Dr. Sandhya D. Jadhav

B.E., M.E., Ph.D (Mech.)

Principal, Bharati Vidyapeeth College of Engineering,
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Head of Departments



Dr. S. P. Shingare
HOD Chemical Engg.



Dr. D. R. Ingale
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Prof. P. A. Kharade
HOD Electronics and Tele.
Communication Engg.



Prof. H. B. Sale
HOD Information Technology
Engg.



Prof. D. N. Pawar
HOD Instrumentation Engg.



Dr. S. N. Teli
HOD Mechanical Engg.



Dr. B. R. Singh
HOD Communication Skills



Dr. J. J. Kadam
HOD Chemistry



Prof. U. S. Mali
HOD Mathematics



Dr. R. J. Gawade
HOD Physics

Editor-In-Chief's Note

Light always overcomes darkness, the good always triumphs over the evil, the phoenix always rises from the ashes. After every spell of agony follows a gleam of hope for better times ahead. As we progress towards the end of the one of a kind crisis which changed the norms of humankind forever, there is aspiration and agitation within us.

Some of us are eager to return to the lives they had to put on halt while some are longing for the warmth from a loved one they lost. This is the revival of humankind and Zeal 2022 is a celebration of the same. Our theme, Mumbai: Victory over Adversity is to honour the immortal spirit of the city of Mumbai.

Like Mumbai, a city which is most alive after dusk, Zeal has been a product of the night. I've been a part of Zeal since my first year and have evolved as a writer and editor with every edition. I've had a learning curve with the words and Zeal is an inseparable part of my journey. It is a part of my identity and I will forever be grateful for the opportunity to have a certain kind of influence as the Editor-In-Chief. Zeal has been a platform for the artists of Bharati Vidyapeeth College of Engineering, Navi Mumbai to express themselves. With the addition of two new sections- Book Summaries and Short Stories, it now also has a place for avid readers and storytellers. Inclusion of art and literature from our faculty members for the very first time is another reason this edition is unique.

Curating an unwrinkled and effortless experience for our readers has been the direction where the team has headed and given their best effort in. Creating a memoir of the talent we have is definitely not a one person's job. There are several people I would like to thank; I will start with our Principal, Dr. S. D. Jadhav for providing this opportunity to our students where they can express their artist selves and our faculty coordinator, Dr. Anuradha Shukla for being a constant pillar of support through the entire process. Lastly, the digital designers, Nishant Kambli, Shreya Malve and Shivam Devhare; the managing editors- Emad Desai, Rituraj Malavde and the board of Editors who have put in their personal bests. I would like to extend my gratitude to the former Editor-In-Chief, Rituraj Malavde for guiding the team when needed.

An artist is nothing without an audience. I thank all the readers for their time and credence in Zeal all these years. We hope you have an enriching experience. Presenting, Zeal 2022!

Prapti Shende
Editor-In-Chief, Zeal 2022



ZEAL 2022

Designer's Note

2022 is the year of comebacks. After two long years of being in the comfort of our homes, we finally get to experience what life was before the ghastly pandemic. Zeal this year is a representation of the freedom we have achieved after years of yearning for the same. Our theme, Mumbai: Victory over Adversity has been incorporated through not only the literature in the magazine, but also through various aspects of designing. The entire design as a whole celebrates the theme. The essence of Mumbai has been captured in minute details like the vector s, backgrounds and frames.

Working for Zeal has always been a huge thing for us. It is a huge sense of responsibility which comes with the perk of learning new things. Zeal for us, is that seed which was planted a few years ago and with which each edition has grown into a plant. We nurtured this plant with creativity, hard work and gratitude. With enthusiasm to create an edition which stands out, the team has been motivating each other throughout the process. Right from conceptualizing to finally drafting the corollary of our relentless conviction, this has been an experience we would love to remember throughout the courses of our lives.

We would like to thank Prapti Shende for giving us the opportunity to be the Digital Designers for Zeal 2022 and Himanshu Joshi for his guidance and encouragement. We hope this edition is pleasing to the eyes of our readers and that they experience the zeal we experienced while creating it.

Nishant Kambli

Shreya Malve

Shivam Devhare

Digital Designers, Zeal 2022



INDEX

SCI & TECH

- IoT & IoT Security 02
- Nuclear energy - a boon or bane 03
- Deepfake 04
- The Metaverse: Possibilities and perils 05
- Is Artificial Intelligence a fundamental risk to human civilization? 06

ART & LITERATURE

- Art and Literature of Mumbai 08
- Dance and Sculptures 09
- Has our history and culture been kept from us? 10
- 15 Streets 11

SHORT STORIES

- Ineffable 13
- The Conscious 14

BOOK SUMMARIES

- Why I Assassinated Mahatma Gandhi. 16
- The Future of Happiness 17
- Ikigai 18

FOOD & TRAVEL

- Visit to God's own country 20
- Ranthambore 21

ABSTRACT

- Beauty of Humanity 23
- Why do humans fight wars? 24
- Resurgence – Life After Covid-19 25
- Sabr 26
- The Immortals of the 1990's 27
- Poems 28-31

Art Gallery

32-35



Science & Technology

To create and innovate is a part of human nature. Man's greatest tool is science. It has helped us survive the countless years that passed by, and it will guide us through the gloomy future. Science is a vast ocean of knowledge and dread, and science is the ship that helps us sail across the ocean. Our nation is on its way to take the lead on the journey to scientific advancement.

IoT & IoT Security

What is IoT:

The internet of things (IoT) is mainly used for devices that aren't usually expected to have an internet connection and can communicate with a network independent of human intervention. An IoT device can be as trivial as deodorant or as serious as a driverless truck.

The concept of IoT is characterized by two defining features:-

- Automation: The general idea of IoT involves direct communication between separate devices, apparatuses and other hardware without human interference.
- Connectivity: Enhanced connections within a network on a worldwide scale provide easy access to various information. History outlining the Internet of Things:

History outlining the Internet of Things:

- Kevin Ashton coined the phrase 'Internet of Things' in 1999, although it took at least another decade for the technology to catch up with the vision.
- IPv6: IPv6 is the successor to a previous addressing infrastructure IPv4 which had limitations. IPv6 was designed to provide enough IP addresses for every device the world is ever likely to need.
- Availability of broadband internet and wireless networking made affordable internet accessible from anywhere in the world.
- Radio-frequency identification (RFID): RFID tagging allows users to conveniently and uniquely identify and track inventory and assets. Adding RFID tags to expensive pieces of equipment to help track their location was one of the first applications of IoT.

Threats and Corrective Measures for IoT Security:

Because IoT is broad, IoT security has to be even broader. This has resulted in a variety of methodologies falling under the umbrella of IoT security. More ways for devices to be able to connect lead to more threat actors to intercept them. Remote exposure, lack of industry foresight and resource constraints are a few of the IoT security challenges that continue to threaten the financial safety of both individuals and organizations

Security Measures to Improve Data Protection Protocols:-

- IoT Data encryption: Secure user privacy and avoid IoT data loss by using standard cryptographic algorithms.
- IoT Public Key Infrastructure (PKI): Using a two-key asymmetric cryptosystem, PKI can facilitate the encryption and decryption of private messages and interactions using digital certificates.
- Application Program Interface (API) security: APIs are the backbone of the most sophisticated websites, so a hacked API can lead to a data breach.
- Avoid rushing the launch of IoT systems: The makers of IoT devices are always in a rush to sell their goods at the lowest cost to remain ahead of the competition. They often do not pay adequate attention to delivering security updates and fixes when doing so. It poses a serious long-term threat to the health of your IoT apps.
- IoT network security: Protecting an IoT network includes ensuring port security, disabling port forwarding and never opening ports when not needed; using anti malware, firewalls, and intrusion detection/prevention systems; blocking unauthorized IP (Internet Protocol) addresses; and ensuring that the systems are patched and up to date.

Future of IoT in India:

There is both awareness and desire to be connected and have smart and intelligent systems in India. With the government constantly trying to improve infrastructure that supports new-age IoT, this industry is expected to grow at an exponential pace in a decade. The Internet of Things (IoT) has the potential to usher in the next industrial revolution, transform society and establish a new ecosystem. India is becoming a big market for IoT devices due to its diverse geography and population.

Sanjana Mondal
SE EXTC B

Nuclear energy – a boon or bane

Nuclear energy is a source of producing electricity which uses the phenomenon of nuclear fission to produce steam. Nuclear fission is a reaction in which the nucleus of an atom splits into two or more smaller nuclei. Uranium 235 is used as fuel in this reaction. The fission process often produces gamma photons and releases a very large amount of energy even by the energetic standards of radioactive decay. It is converted into heat which eventually boils water and produces steam. This steam spins the turbine to generate electricity.

There are a lot of upsides to nuclear energy; it produces a notable share of global electricity. On the brighter side, there is no emission of harmful greenhouse gasses (carbon dioxide, methane, chlorofluorocarbon, etc.) during the nuclear reaction, this in turn helps to put a check on global warming. Nuclear fission produces a lot more energy than the energy produced by conventional sources like burning of fossil fuel, hydro and wind energy. Nuclear Energy can be produced in large quantities over a short period of time. We can definitely save oil reserves which are going to run out at some point.

When compared to fossil fuel waste, the nuclear waste which occurs due to the production of nuclear power is small in quantity but is a major environmental concern as it is radioactive waste. Nuclear power releases radiation, which causes severe health issues to the people in its surroundings like radiation burns and cancer. The radiation released by this lasts for tens of thousands of years in the environment.

Nuclear plants are dangerous if they explode. There was a huge loss of life because of a human fault in the nuclear accident at Chernobyl in 1986. Chernobyl remains inhabitable till date. Recently, on March 11 2011, four nuclear reactors exploded in Japan due to the earthquake in Fukushima. High radioactivity was found in water, leafy vegetables and seafood at the site of the nuclear reactors which exploded as well as in the people who were working to reconstruct those power plants. These nuclear plants possess more concern during wars and geopolitical escalations.

There are about 440 nuclear power plants operating across 32 countries. Safety of such plants must be taken into consideration. Constructing new plants can be a matter of risk. The hazardous waste should be managed properly and human safety should be taken into consideration.

Nuclear energy is definitely a bane if not used properly. Growth of technology should not be a danger for human survival. Working on safe and alternative sources of energy such as solar energy and hydroelectric energy which do not cause as intense damage as nuclear energy is far more beneficial. Incidents like Chernobyl and Fukushima are proof that nuclear energy is not worth the damage it causes to life. The advantages of nuclear energy can be enjoyed if plants are handled with utmost care.

Shubham Salekar
SE Chem

DEEPPFAKE

What is a deepfake?

Deepfake is a type of artificial intelligence used to create convincing images, audio and video hoaxes. It uses deep learning to manipulate the image in such a way that the person won't be able to differentiate that image from the real one. Along with images, audios can be deep faked too. The audio will be identical to the original one.

How are deepfakes created?

A person's face is swapped with another with the help of a facial recognition algorithm and Variational Auto-Encoder (VAE) – it encodes images into low dimensional representation and decodes those representations back into images. Using VAE, the encoder will find the similarity between two images and then the images are compressed. The decoder will recover the original image from the compressed images. A picture is generated by extracting the similarity from the images and the decoder data.

Advantages and Disadvantages of deepfake

Deepfake can be used in movies to create a particular scene. They can also be used in medicine to create fake brain scans based on actual patient data to train algorithms to spot tumors in real images. There are a lot of scams because of deep fake as it becomes easier to manipulate and create fake information with the help of deepfake. News media are created using deepfake and very convincing which makes people believe it. People must learn to think more critically about the media they consume. For example, there was a fake video of Barack Obama insulting Donald Trump made with the help of this technology. Politicians and celebrities can be easily targeted by using deepfake.

Photos shared on social media accounts can be misused without the consent of the account owner. Hence, privacy is at stake.

How to detect deepfake videos/images?

Deepfake can be detected by noticing the facial expressions, eye movement, body posture, body movement, emotion, blurry or misalignment, unnatural coloring, lighting and poor audio. It can also be detected by comparing the video or image with the original image which can be searched with the help of the internet. Various organizations are working for a solution to spot a deepfake. Many tech giants like Twitter, Adobe, Facebook, Google are already working to prevent and detect them.

There are various advantages and disadvantages of this technology. But if the ill effects are not controlled with time, it might be destructive and people might lose hope for AI based technologies. We can make good use of deepfake, but we need to create awareness which will help people to think about it in an ethical way. Many companies are already working to detect malicious practices. In future, it will be of greater use in research in different sectors.

Shrushti Nikam
SE Comps

THE METAVERSE: POSSIBILITIES AND PERILS

What is Metaverse?

Metaverse is a conceptual and highly immersive digital universe or a virtual world where you can play, shop, create, do things like traveling, go to work, concerts and collaborate with people without actually leaving your home. It is the way we all probably would be using the internet in the future. Metaverse is a 3D virtual space where users would be able to connect and experience all aspects of their life virtually with the internet. The concept of metaverse isn't completely equipped for the users to experience as of now. Roblox, SecondLive, and Fortnite etc are some of the closest examples of metaverse.

The term Metaverse is a combination of two words, 'Meta' which has been taken from a Greek word meaning beyond; and 'universe'. This term was coined by the author Neil Stephenson in his novel "Snow Crash", published in 1992 which is used to describe a computer generated universe. The Metaverse is at the very forefront of big tech giants, experts and inquisitive minds.

Possibilities:

- In the future, remote working would become more fun, advanced and realistic with metaverse.
- Metaverse will enhance the way we shop online as it has the capability to enhance the virtual in-hands experience for the user.
- It would also be very useful for educational purposes. Online meetings would be more immersive and engaging.

- Cryptocurrency and Blockchain technology will be an effective way of transaction and NFTs would make way more sense in the metaverse.
- It can be used to train and strengthen the skills of people as well as robots effectively.

The possibilities of Metaverse are limitless as we can expand our imagination into the virtual worlds that we create.

Perils:

- Addiction to virtual or augmented reality can make humans excessively separated from the real world.
- As Metaverse is a virtual world, it is vulnerable to cyber-attacks which threaten the issues of ethics and privacy.
- The hardware used for Metaverse can cause health issues in the long run.
- The virtual world that we create for ourselves to socialize in a better way can cause real world unhappiness.

Samruddhi
Jadhav
TE Comps

Is Artificial Intelligence a fundamental risk to human civilization?

Are artificial intelligence (AI) and superintelligent machines the best or worst thing that could ever happen to humankind? This is a serious question in existence and there would be a time when machines could have an unlimited impact on humanity through a process that is imitative of evolution. Artificial Intelligence is the science and engineering of making machines which can function intellectually, especially intelligent computer programs. At its simplest form, it is a field, which combines computer science and robust datasets, to enable problem-solving. It also encompasses sub-fields of machine learning and deep learning, which are frequently mentioned in conjunction with artificial intelligence.

The prime objectives of development of AI are reasoning, knowledge representation, planning, learning, perception, social and general intelligence. AI is relevant to many intellectual tasks like search engines, internet traffic, targeting online advertisements, autonomous vehicles, language translators, facial recognition, image labeling and many more. It has successfully helped to solve many problems like energy storage, military logistics, medical diagnosis etc. But we cannot avoid the possible threat like (AI) will become seriously dangerous to the existence of human civilization.

By the time we step into the 2030s, Stephen Hawking foresees that 38% of US employees will be mechanized robots. With AI dominating every aspect of human civilization, the mushrooming of autonomous weaponry is imminent.

When this occurs, Hawkings strongly supports his thought that the days of mankind on the planet Earth are numbered. According to him, AI on one side could transform every aspect of human life but on the other hand, poses new challenges that can cause severe damage which cannot be altered. It may destroy the ethics of human society and could be the worst event in the history of human civilization. Building conscious machines using AI is definitely a huge step in the development of humankind as a whole, but we should strive towards being able to have complete control over such machines so that they do not overpower humans. By learning how to be prepared for the risks of AI, we can avoid the damage caused by AI. The development of robots at these rates will soon threaten humans by snatching away their jobs.

AI can prove to be a boon for the world but we need to be aware of the dangers and try to opt for the best possible practices and management. Therefore, we as humans should go by the concept of continual progress but the key is to recognize the potential dangers of technology. Once these technological threats are identified and controlled, AI can pave the way for a progressive society.

Dr.Vaishali Agme Ghodke



Art & Literature

The complexity and functionality of the human mind is unfathomable. It works in the most mysterious ways and engenders thoughts which constantly find a way to escape and art comes to the rescue. Pens, canvases, musical instruments become mediums of expressing one's thoughts. It is a proven fact that the best art in the world is created when the artist escapes into a trance and the best words woven together by a writer are a result of him diving deep within himself. This is a draft of our artists finding comfort in venting through art.

ART AND LITERATURE OF MUMBAI

Art &
Literature

There is no generally agreed definition of what constitutes art, though we can say that art is an imaginative reflection of life while literature is applied to imaginative works of poems and prose distinguished by authors. The classical branches of art are painting, sculpture, architecture etc. Theatre, dance and literature are included in the broader aspects of art. Art is considered as a purest form of talent in which the artist visualises and creates something which is worth appreciating and Literature teaches us some truth and gives us information about places and people. It also plays an important role in shaping a person's mind. Art and literature have evolved over the years and one place where artists from all over the nation come to try their luck and art is appreciated is Mumbai.

Mumbai- a city which never sleeps is one of the largest and most beautiful cities in India. A city full of dreamers and hard working people where poor and rich live together, where a person's worth is not decided by their net worth but by their talent. Art and literature play a huge part in this diverse city alongside its famous cuisine and culture. Art has been a medium for the artists to express themselves. Mumbai is the birthplace of several art forms and nurtures art in its own unique manner. The popular Chemould Prescott Road gallery is one of the oldest and prestigious art galleries in Mumbai that showcases the renowned art. Literature festivals like Tata Literature Live and Times litfest have been enlightening people about art and underrated artists from all over the nation.

Celebrated in the months of November and December, one of the most unique literature festivals, The Queensline literature fest is held on a ship.

The multicultural festival of Kala Ghoda is one of the art festivals which celebrates painters, potters, writers, digital artists, animators and all kinds of artists one can think of. It is a festival where people from all over the globe showcase and sell their art. It is held every year in the month of February.

Art is the beating heart of Mumbai. From graffiti painting on the streets of Bandra to the Jehangir Art Gallery, from Prithvi Theatre to The RK Studio, art is in every corner of this city, it lives and breathes here. Fortunate are those who get to experience the euphoria this city has to offer.

Kamakshi Arya
SE Comps

DANCE AND SCULPTURES

Man is an emotional and social animal. Whenever he sees and hears something around him, his heart reacts in a certain way, these ways are called 'Bhavas' or 'feelings' and expressing these Bhavas with beauty is called 'Kala' or 'art'. So the person expressing these Bhavas becomes the artist and the feelings he is trying to express becomes the art form.

Indian art in the form of dance, music, theater, poetry, painting, sculptures has evolved through centuries. Each art form is classified as independent but also interdependent as all the art forms enrich each other.

If we look at the various ancient contexts as well as the sculptures in the temples, we can see that dance and sculpture are closely related to each other. The two arts are complementary. There is a story in the Vishnudharmottara Purana where a disciple approaches a teacher for guidance to sculpt and the teacher directs him to learn music and dance before teaching him the art of sculpting because the three arts are intimately interrelated. This instance shows that art forms cannot be isolated from one another.

The earliest historical records showing the origins of dance are cave paintings and sculptures in India dating to about 8000 BCE. Indian temples are adorned with panels depicting graceful dancing figures and musicians playing instruments. Dance is one of the highest forms of representation of the divine powers in India. Nataraja, the lord of dance is a form of Lord Shiva who symbolizes an ecstasy of motion, the rhythm which holds the universe together.

In the magnificent Nataraja temple of Chidambaram, the inner walls depict dancers in 108 poses, along with descriptive texts from the Natya Sastra (earliest literature on music and drama). With their feet posed in dance stamping to the rhythm of their music, these figures are marvelous works of art full of life and movement. The Dilwara temples in Rajasthan (11th-13th century AD) have interiors of white marble carved with a profusion of detail with infinite patience and skill.

The dancing figures on the pillars are genuinely a dream of beauty. It is unlike anything ever seen.

The most marvelous sculptures portraying the joy of living are found at the world famous Khajuraho temples (10th – 13th century AD). The skills of the artists who have captured the beauty and grace of the dancers and musicians in different moods and have brought the stone to life are simply marvelous. We also come across numerous other temples with exquisitely carved sculptures showing dancers and musicians such as the sun temple of Konark, Mahadev temple near Sikat, temples in Bhubaneshwar and Puri, Brihadeshwara temple at Tanjore and one is Darasuram.

These sculptures were mainly carved onto temple walls and caves to preserve the 'Natya Shastra' which is more than 1000 years old. The wealth of sculptures is education for the dancers but due to westernization in the middle age these sculptures were highly neglected. But dancers are now, once again looking at the origin of dance and in this process, ancient sculptures are becoming a major subject of research. Dance and sculptures have evolved to complement each other and it is easy to predict the social status and development of dance at that time by looking at the sculptures.

Working through a rhythmic body swings the dancer and creates a vocabulary of hand gestures, of eyes as well as facial expressions for the portrayal of moods, emotions, sentiments, actions and ideas. The artists have captured in stone movements of every part of the human body from head to toe, what could not be depicted in words. Though the figures do not move, they are full of latent mobility as if infused with elemental energy. Although we have tried to understand the close relationship between dance and sculpture, the more we study this subject, the more its depth increases as time goes by.

Chinmayee Gamre
SE Comps

Has our history and culture been kept from us?

India is a culturally vibrant country, with cultures so diverse that it is often referred to as a little continent. It is home to some of the most religious and spiritual societies. We have a long and strong history worth telling the world. In our cultural relics or religious texts, everything has been passed on to us by our ancestors. Yet, there are certain times where we feel like numerous things have been kept hidden or we can say the proper transfer of information hasn't occurred. Hindering the proper flow of history and preventing it from reaching us has been the primary strategy of many foreign invaders. Many of them realized that the only way to cause the downfall of India wouldn't be achieved by waging wars on Indians but by scrutinizing Indian culture. Before the dawn of the foreign invasion, India was a powerful, bustling nation with a vibrant culture, history and was the pinnacle of knowledge and learning.

When the first foreign invaders came, they destroyed the cultural places and landmarks like our temples and universities. The Afghan general Bakhtiyar Khilji on his ruthless raids of the cities in northern India demolished several places of worship and also ordered the burning of the legendary Nalanda University. The university held great knowledge, prestige and history and burned for several months. Many ruthless leaders that succeeded him followed the same tact.

Throughout the millennia, several attacks were made on the Indian culture and attempts were made to completely erase the proof of our days of glory. The British played a large part in distorting and concealing our history. After they defeated the kings of India and established their rule, they formulated that the only way to truly subdue the Indians was by concealing their culture. For this, the British appointed Thomas Macaulay for revolutionizing the Indian education system, which they termed as 'old fashioned'.

During this drastic change, a ban was imposed on the Indian gurukuls and the spread of Indian religious texts was also restricted. They were vastly successful in their attempt to alienate us from our own history. The result of this new education system was that Indian children knew very little about their past and their nation. They were brainwashed into thinking that India was an uncivilized and insignificant land inhabited by savage people and it was the Mughals and the British who brought a proper system of civilization.

We see this method used even today. We are being taught the same distorted and biased history that makes us believe that India was weak before the arrival of the foreigners. The syllabus taught by our history textbooks, especially NCERT, is exceedingly distorted and one-sided, completely neglecting the true Indian history. This results in students being completely unaware of their own culture and history. This alienation of the people from their history has caused a rise in hatred towards their culture. The British have succeeded immensely in hiding our history from us and turning us against our own culture. But this needs to change. If we, as a nation, want to progress further, we need to embrace our true roots. A tree ashamed of its roots can never flourish. Our true history is written in our ancient texts and artifacts. We must make active efforts to educate ourselves about it and bring it forth to our fellow Indians.

Prathamesh Totre
SE Chem

15 STREETS

In the middle of the hustling and bustling city of Mumbai, lie 15 streets with thousands of untold stories. Commonly known as Kamathipura, this area in Mumbai looks just like any other locality in the city; crowded and noisy. Previously named Lal Bazaar, the area got its current name from 'Kamathis', workers who worked on construction sites. These workers started settling up in these streets in 1795, a result of the Hornby Vellard project in the British Raj. Kamathipura is now the oldest red light district in the world. Flesh trade in Kamathipura began in the 19th century with the trafficking of European and Japanese women. The area became well-known for prostitution and after India gained independence, women from all over the country were trafficked making Kamathipura one of the largest red light districts in India.

In popular culture, Kamathipura is a filthy, mushy locality where foul-mouthed women compete for a job they loathe with men ogling at them. The reality is far away from these stereotypes. The area in fact is the whole of Mumbai corralled together. The small, crowded, ill-maintained houses are similar to the ones in Dharavi, shops of the beautifully crafted furniture are reminiscent of the ones at the sophisticated shops in Versova and Oshiwara, the savour of delicious meat being cooked can remind anyone of Muhammad Ali Road, a street filled with electronic shops is a spitting image of Lamington Road. Kamathipura has the complete essence and the spirit of Mumbai and not many places have that.

It depicts the rich and elite through the furniture, handicrafts, artifacts created there which are eventually sold to the rich and the poor through its congested houses and bordellos. Arab Gully, one time residence of the impeccable writer Saadat Hasan Manto is the beating heart of the area. Apart from the visually pleasing rawness, the area has lush constructions like a marble deraaser, temples, mosques and an Ambedkar shrine.

As alike as Kamathipura is to the rest of the city, there exists a sense of hurt, pain and turmoil within the people and hence in the air. Girls and women are stripped of every single right as human beings. The system of flesh trade is entirely functional because of men. They are the ones who traffic and they are the customers as well; yet the women in this profession are shamed. These women are not looked at as anything else but meat. Their stories remain untold, they have been unheard for centuries now. Though Kamathipura is home to thousands of women, the longing for their homes, families persists. Several NGOs like Prajwla, Rescue foundation, Guria work to rescue adolescent children who are trafficked. Initiatives should be towards respecting the women in this profession, having empathy for them and acknowledging the fact that they are a part of our society.

Prapti Shende
TE Chem

Short Stories

To write a story is to create a new world for your audience. The unique blend of words and emotions are like vibrant shades that come together to form a beautiful picture.

Some short stories portray the cheerful aspects of our society whereas some draw the limelight on the harsh realities.

INEFFABLE

He locked the door and took the stairs as always on his way to college. While walking down a voice in his head whispered in rage, "You can't get away from this so easily", and all of the sudden he started perspiring, his heartbeat paced and he blacked out in front of room 203.

When he woke up, he found himself in bed. Everything was exactly in the place in his room yet, something was off. He saw the clock hanging over his study table, it was quarter past five. He realized that he was unconscious for more than 10 hours. He looked around himself and everything seemed enormously huge. He tried to reach the phone kept on the table next to the bed but it seemed impossible. The more he leaned forward, it kept moving further away. He felt small, powerless and inferior. The anxiety started rising in his body. All of his insecurities flashed in front of his eyes, he could clearly hear every second passing and with every passing second the darkness engulfed his room. He could barely breathe and out of nowhere the door slammed open. It was his mom.

"How are you feeling son?" she asked with a smile on her face. "I heard you are in a lot of stress lately, now I am here to look after you", saying that she petted his head. He felt relieved, her presence in that moment was an escape from the perpetual thoughts. "I am okay now", he replied and further asked, "when did you come here?" "Mr. Patel living downstairs called me, saying you were not well." She said suspiciously, "And where is your roommate?" "Well he, he must be in college" Sam replied anxiously. "Is everything alright Sam?" Sam was haunted by the past and immobilized by the future. Every day in college was challenging for him. Backing out and running away seemed more convenient for him than to deal with the mess his life had become. Facing those bullies at college was difficult. It was even affecting his

and eventually Sam started quitting things. He failed his weekly tests; his grades declined gradually.

"I don't understand," he said, "the elite students dominate everyone below them. Everyone suffers their tyranny. They bully other students. Even my roommate is a part of this" he bursted out crying. "There is no space to breathe; every day is a struggle. I am unable to cope up with everyone. A fear of being left behind terrorizes me", he weeped. He continued "you get judged every single moment. It is difficult, the constant race for social validation. I know deep down that this world is not real, yet I cannot keep myself from getting affected by it. It is like a black hole, no matter how much you try to escape it, you get sucked deeper. The toxicity of social validation keeps growing every day. The constant need to always be correct and do everything with utter perfection just to show that you are relevant to this world, it is exhausting! The saddest part about this is there is always a big fish. I don't understand how to deal with these things along with the pressure of studies. I feel like giving up." Seeing Sam in pain, his mother got worried.

"Relax! Take a deep breath." She said "I know it is difficult to deal with these things. You need to make yourself strong enough to face them, to stand against injustice. These things are constant in life. Just be yourself. If you want people to accept you, you need to accept yourself as you are. There won't be a need for social validation then. Remember that everyone is unique. Things will get better. And you are my strong kid." Her words gave him the comfort which he was craving for. This whole incident was disturbing but he had his mother by his side. He felt free. The constant dilemma he was facing was resolved. He knew what was to be done.

Shubham Sulekar
SE Chem

THE CONSCIOUS

A ray of light passed through the quiet, huge expanse spread to the horizon. Every drop of the oceans stood still, as if anchored to the spot. Even the air did not dare vibrate. The light saw the world frozen; but it was used to it by now. Deafening silence increased as the ray of light coming from an unfathomably far distance faded away, waving goodbye. So did the warmth that accompanied it and, in an instant, the temperature dropped. The surface hardened again, developing icy thorns along the top. The message was clear: Abandon all hope, he who enters here.

And so it came to pass. No living being was present to acknowledge this change in nature. Even if there was a conscious to interpret the meaning, they would witness nothing. By that time, all there was, was darkness. Flooded in all directions possible; outside, within all atoms present. There was no life, no world, no existence.

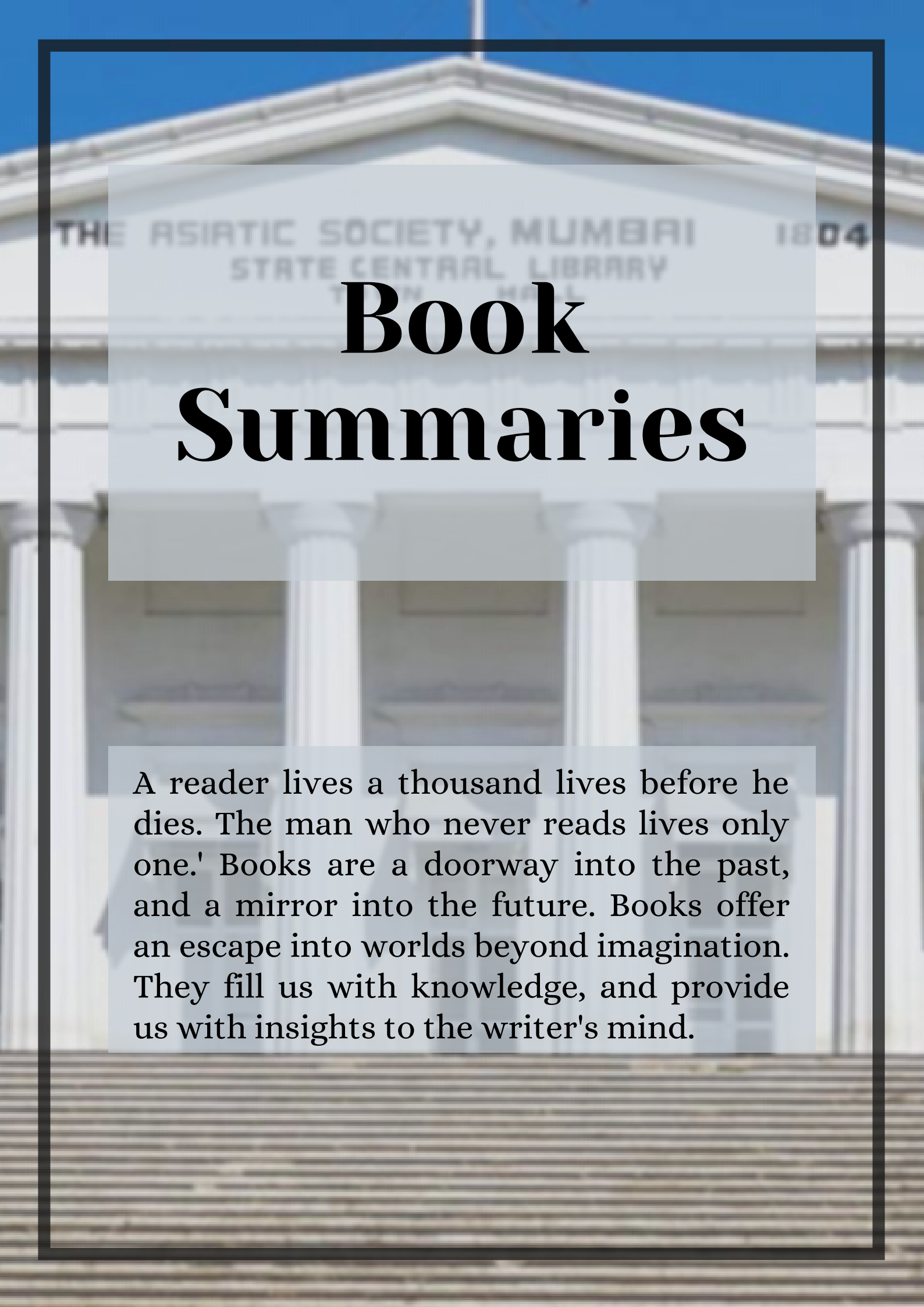
It could be either seconds or eons after that point, that a spot of illumination was felt in the void. Only a restricted area radiated a divine glow, like a white outlined painting on a black canvas. The conscious would interpret it as a God, but soon a question would contradict it. Do Gods wear a Hood? The running light circled the hooded figure, covering even the farthest objects physically connected to Him. His outstretched hand was holding something that camouflaged with the surrounding darkness. The conscious would not be able to see it unless it was brought directly in the light.

Comprehending the thought of the conscious, the hooded figure nonchalantly guided his hand forward. The curved pointy head fixed on a long shaft was now identifiable. And consequently, at long last, so was the hooded figure.

The conscious would run, in all directions away from the deity, but no matter how fast or slow it went, the figure maintained a fixed distance behind it. Soon, the conscious would mistake the figure's distance as invincible and it would begin to lose its fear for it. The moment the conscious would feel invincible, it was over. The figure would close the distance between them and the conscious would be lost forever.

One must agree, if not God, there are other forces that govern the universe which are simply beyond human interaction. No words, action or even the lack of it can influence them.

Rituraj Malvade
BE Mech



Book Summaries

A reader lives a thousand lives before he dies. The man who never reads lives only one.' Books are a doorway into the past, and a mirror into the future. Books offer an escape into worlds beyond imagination. They fill us with knowledge, and provide us with insights to the writer's mind.

WHY I ASSASSINATED MAHATMA GANDHI?

—NATHURAM GODSE

The book, written by Gopal Godse, brother of Nathuram Godse, is a memoir of Nathuram Godse's action to assassinate Mahatma Gandhi and his motive behind it. This book takes us through some political events to the day of the assassination. On 30th January 1948, Nathuram Godse fired three bullets at Mahatma Gandhi. He surrendered himself and the news spread like a wildfire. The nation mourned the death of Gandhi. Nathuram Godse made a statement in court explaining his motive behind his actions. Nathuram Godse was born in a Brahmin family and he was immensely proud of being a Hindu. He joined RSS and was also a member of the Hindu Mahasabha. He often expressed his political views in the newspaper columns. He was a firm opponent of Mahatma Gandhi's ideology of 'Ahimsa'. According to him, honour, duty and love for one's kith, kin and country might often compel us to disregard non-violence and to use force. He believed that Mahatma Gandhi had good intentions for our nation and Hindu-Muslim unity but his actions might be devastating for the nation.

Some of the issues discussed in the book are:-

1..After the partition of India, there was a war in Kashmir as both India and Pakistan claimed the entirety of Jammu and Kashmir. Pakistan attacked Kashmir in October 1947. The Government of India planned to withhold the payment of fifty-five crores to Pakistan until the Kashmir problem was resolved. Mahatma Gandhi opposed this decision of the government and he began a hunger strike to express his hostility. On 17th January 1948, the government agreed to pay the amount to Pakistan as a result of the strike. But the Kashmir issue persisted.

2. The British started implementing the divide and rule policy which sowed the seeds of hatred among Hindus and Muslims. Gandhiji actively worked for Hindu-Muslim unity. He commenced making a convivial approach towards Muslims and he tried to build trust among them. In 1940, Muhammad Ali Jinnah emerged with an injunctive authorization for Pakistan.

He completely ignored the fact that there were Hindus and Muslims in every part of India and any division of India would leave the problem of minorities completely unsolved.

3. In 1942, Mahatma Gandhi launched the Quit India movement which was followed by violence all over the country and thousands of leaders were arrested. Mr. Jinnah openly opposed the 'Quit India' movement claiming it was hostile for the Muslims and raised a counter slogan 'Divide and Quit'.

4. Godse has mentioned many such political events in the book. He has said that "Gandhi did undergo suffering for the sake of the nation. He did bring about an awakening in the minds of people. He also did nothing for personal gain, but it pains me to say that he was not honest enough to acknowledge the defeat and failure of the principle of non-violence on all sides. But whatever that may be, I shall bow in respect of the service done by Gandhiji to the country and Gandhiji himself for the said service, and before I fired the shots, I wished him and bowed to him in reverence". In the end, the trials came to an end and Nathuram Godse was sentenced to death.

Shrushti Nikam
SE Comps

The Future of Happiness

Author- Amy Blankson

In the book 'The future of Happiness', the author discusses the role of technology in our lives. Knowing that technology is here to stay and will continue to evolve in form and function, she emphasises that we need to know how to navigate the future to achieve a better balance between technology, productivity and well-being. Rather than letting technology become a distraction, we can use it to fulfil our life purposes with meaningful choices. In addition to sharing studies and statistics about the effect technology has on our brains and society, she describes the healthy role technology can play in increasing our ability to "strive after our potential". In this book, the author unveils 5 strategies, which we can use to control the power of technology without being overwhelmed by it.

The five strategies are:-

1. Stay grounded to focus your energy and increase productivity.
2. Know yourself through app-driven data to strive towards your potential.
3. Train your brain to develop and sustain an optimistic mindset.
4. Create a habitat for happiness to maximise the spaces where you live, work, and learn.
5. Be a conscious innovator to help make the world a better place.

In each of this section, the author gives a list of "happy hacks" that move the discussion beyond theory, into practical application. These are easy to implement and practical yet powerful enough to be life-changing. After understanding how, why and where one should use technology through this book, one can not only improve their own life standards but also can make a huge contribution in the development of our country and community.

Suprabha Holkar
FE Extc

IKIGAI

Ikigai, described as the art of living by the authors, focuses on the simple way of living life. The authors Hector Garcia and Francesc Miralles conducted a huge number of interviews in Ogimi, Okinawa to understand the longevity secrets of the people and why many Japanese never really retire. The secrets came out to be good diet and exercise.

What is Ikigai?

Ikigai is described as the reason we get up every morning. Ikigai is found deep inside each one of us. It just needs a patient search and once it is found the person pursues the passion no matter what.

Here is the gist of the chapters of the book:-

Stress:-

One of the reasons which kill longevity is the stress on the human mind. It is found that greater the stress, greater is the degenerative effect on cells. Our mind has tremendous power over our body so keeping a positive attitude would have a positive effect on our body.

Logotherapy:-

A unique experience that you can achieve without therapists. It explains that it only takes a matter of courage and making the effort to stay on the right path. In order to achieve the optimal experience we need to focus on increasing the time which brings us growth rather than spending our immediate pleasure.

Living in the moment:-

Being in a hurry is inversely proportional to quality of life. Which means when we leave urgency behind, life and time take a new meaning.

Secrets of longevity:-

"Eat and sleep, all you will live a long time. You have to learn to relax" - Misao Okawa (117 years old). The eldest members of the community shared their secrets of longevity which is don't worry, cultivate good habits, be optimistic and live an unhurried life

Longevity Diet:-

The total number of people who got interviewed in Okinawa have their own vegetable garden and most of them also have fields of tea and mango. Locals eat a variety of foods, especially vegetables. The locals advice to consume fewer calories and eat fish or products that are rich in collagen on an average of three times a week. This shows that people are not dependent on anyone but themselves which leads to longevity of life.

There are 10 Rules of Ikigai:-

1. Take it slow
2. Smile
3. Follow your Ikigai
4. Don't fill your stomach till 100%, have 80% proportion.
5. Surround yourself with good friends.
6. Don't stress much
7. Reconnect with nature
8. Stay active; don't retire do what you love
9. Be thankful
10. Live in the moment

The book also includes some notable quotes and proverbs.

"Nana korobi ya oki (Fall seven times, rise eight)" - Japanese proverb

"We are what we repeatedly do." - Aristotle

"To be able to concentrate for a considerable amount of time is essential to difficult achievement." - Bertrand Russell

Kamakshi Arya
SE Comps



Food And Travel

It is said that one can learn certain things only through experiencing events which are either cherished for life or leave behind an unforgettable life lesson. Humans were born nomads and even after centuries after evolution, we still seek the unpredictability, uncertainty and satisfaction one experiences through travel. Food is an inseparable part of any culture. It is rightly said, the way to one's heart is through their stomach. Trying a particular cuisine is like taking a part of a culture home. Here is a reader's delight, the traveller's memoir.

VISIT TO GOD'S OWN COUNTRY

There's no doubt that 'travel' is the perfect medicine to soothe one's mind and soul. My love for travel is so strong that taking a trip every now & then boosts my efficiency in the other fields of my life. I just love exploring places, be it alone or with family as it also helps me gain a fresh perspective about life. Kerala was one of the places where I have always wanted to visit, so after I had completed my board exams, it was the perfect time for me and my family to go on a relaxing vacation.

On our first day, we landed at Cochin airport. I was so surprised to learn that the whole airport is powered by solar energy. For our breakfast, we visited Anna's Cafe which is 1km away from the airport. It is known for its authentic South Indian breakfast. The fried banana, Masala Dosa and Sambar Vada were absolutely delicious, light and fresh at an affordable price range. Breakfast in Kerala is incomplete without having their special, brewing filter coffee. One can smell the richness of the coffee beans from the aroma which can be smelled from a great distance.

Our visit to Athirapally falls is something I will remember for life. The journey to that place was really beautiful. It was soothing to sit by the water and enjoy the water flowing besides us. The sound of nothing but water flowing was calming and a reminder of what it is like to be away from the hustle and bustle of the city. It was a much needed halt from the world that forces us to constantly chase materialistic dreams. On our way to Munnar, we had our lunch at Miracle which is at Kuruppampady, Ernakulam. This was our first traditional Keralite meal which included Veg Curry, Green Peas Masala, Parotta, Fresh Lime juice.

What a spread it was! Words are not enough to do justice to the taste and aroma of that meal.

Munnar was very pleasant. We also visited the Chittamkal and Attukal Waterfalls. Walking through the roads with Tea Gardens on both sides is an experience I will cherish for life. The locals there were very hospitable and welcoming. India is one of the largest exporters of tea. The tea industry has definitely provided job opportunities for the people living in rural Kerala. We also visited the hill station, Devikulam which is located near Munnar.

Kerala was a splendid celebration of culture, nature and simplicity. Land covered with tall coconut trees, lush greenery and lush blue backwaters at the same time; Kerala is accurately God's own country.

Prasad Deshmukh
SE Comps

RANTHAMBORE

Often the best trips are those which are planned at the spur of the moment with an undecided itinerary. Our trip to Ranthambore National Park was exactly that – spontaneous and unplanned. Travel restrictions due to the pandemic made it tough for us to travel to another state. The trip was planned for the last week of December 2020. This was the perfect opportunity for a year end trip and we couldn't let it go.

Ranthambore is a well visited place and bookings for safaris and rooms are best done before visiting. We booked ourselves into Hotel Aranya for 4 nights and also booked 2 safaris on gypsy. Ranthambore has a lot to offer to budding wildlife photographers like myself. With a number of Tigers, Ranthambore was declared as one of the Project Tiger Reserve in India. Being a Photographer, I was excited for the Safari. We packed our camera gear and got ready for Safari. Instructions were given to us by our guide before entering the forest and off we went on our first safari. Seated in the last seat of the Gypsy, I was pretty excited, having heard from a couple of people in the hotel that they had seen a tiger last evening. We had been allotted zone 2 to explore the jungle. The first check happens at the entrance gates to all zones. A forest official came to the Gypsy and checked everyone's ID proof. All bookings have to be made with government-authorized ID proofs. One must carry this proof at all times while on a safari since the officials there take this pretty seriously. After the verification we moved forward to another checkpoint to the Zone allocated for us. With the verification process in progress a bunch of Langurs came near the checkpoint as we were the first ones to enter that day.

We then ascended to Zone 2 as it's a bit of hilly terrain. On our way up, we were witnessing a sudden dip in temperature with an average temperature of 6-8 degree celsius. The lush green cover of trees like Babul, Gurjan and Khair added to the chilliness. Our guide told the driver to slow down the Gypsy and started looking for paw marks on the soft surface through which Gypsy are allowed. Out of nowhere we heard a Sambar Deer. Our Driver stopped the Gypsy and the Guide started locating the direction of the call. After which the driver rushed to that direction,

I wasn't ready for that freezing cold and had my hands shivering on the Rusty Steel handles of Gypsy.

Arriving at that location, we were told by some forest officials that the call was from the top of the hill where the tiger was trying to hunt the Sambar. Our driver tried to find some locations where we spotted a Flock of Rufous Treepie which came along our Gypsy so our driver stopped by a checkpoint only to witness the beauty of nature there. Rufous Treepie started sitting on our Gypsy as well and one of them came and settled on our driver's cap. It was an experience like no other. With this, we wrapped our first Safari of the day.

Our guide told us to be ready by 2 pm for our second safari. He arrived early and told us to rush as he had heard of a Tiger spotting in the same zone we were allocated for the afternoon safari. As we entered, forest officials coming from the opposite direction alerted us of tiger spotting in a nearby lake. We rushed to the spot and witnessed a giant Orange cat striped with black lines coming out of the lake patting the paws on the ground with a slight roar. It was one of the known Tiger twins Riddhi-Siddhi. As soon as Gypsies gathered for the perfect photo opportunity the tigress soon vanished into the bush. We then visited a nearby lake where we witnessed around 10-15 Crocodiles coming out of slushy brown water. Besides them, sat Kingfisher and an Eagle which was camouflaged in the colors of slush. Continuing our search for tigers, we saw a pair of Mongoose which meant we'll definitely spot a tiger in the same safari and indeed, we spotted a Giant Tiger Snoring near a lake after having a Sambhar kill.

It was now nearly time to exit so we proceeded towards the exit, all with smiling faces. As we neared the main gate of the national park, the guide stopped the vehicle at a tree and showed us a seasonal waterfall near it. It was surreal. A few meters ahead, we spotted a Giant Sambar Deer that stood on the side of the driving track for gypsy. It was an experience I shall remember till my last breath and cherish for all lifetimes to come.

Prathamesh Dhuri
BE EXTC



Abstract

When the days turn dark and the light gets dimmer, a spark of fire is all it takes to light up the room again. A writer needs that spark, a thought to create magic with his words. A thought which is inspired by something and inspires someone to pour their heart out on a piece of paper. Be it anguish, hatred, ecstasy; words always come to your rescue. A tightly knit sweater with yarns of ideas, conviction, dedication and creativity is what defines this section. Read Away!

BEAUTY OF HUMANITY

Human beings are undoubtedly the most advanced and the most intelligent beings on earth. One thing which humans generally tend to forget is that each and every human, inherently being the same, has a unique demeanour and character of his own. In every situation, each person has a different attitude towards a particular thing. It's generally not about right or wrong, but it's about adding different flavours to a circumstance. Just like when a particular dish is cooked, different ingredients are added in specific quantities to make it perfect. Similarly, each and every person's thoughts are ingredients for a particular task to be completed perfectly.

Flaws are an inseparable part of human beings. Rather than pointing out the flaws, why not celebrate the uniqueness to live this life happily. Understanding each other's point of view and putting yourself in some other person's shoes and being empathetic cannot harm anyone. The world is created in such a way that humans are dependent on each other and they can grow with each other's help. There is a lot to learn and be inspired by our fellow beings. Gaur Gopal Das ji, who is a spiritual monk and a motivational speaker once talked about how we can grow by starting to look at divinity in everything and every aspect. He said, "You can look at the divinity in nature, you can look at the divinity in other people, you can start looking at the splendour of the creator/creation or you can start looking at the splendour of the creator in the creation."

This is actually the key to eternal peace and happiness. When you start realising how splendid the creations of the God are, when you are amazed by the magnificence of the divine creation, when you start being grateful for each and every thing you have, the small things will matter and make you happy. You will realise that life is nothing but a blessing.

Humans have deviated from the right path but it is only us, human beings who have the strength to achieve greater things only if they realise their true potential. That will happen when they realise that love is the ultimate language to speak. Life is a party and all human beings are your friends you can enjoy this party with, you just need to embrace the good in every human. Indeed, the beauty of humanity lies in the creation of a beautiful painting of this world with the countless unique colours representing different shades of the human mentality.

Sarvesh Chougule
SE Chem

Why do humans fight wars?

Abstract

From prehistoric times, the race of man has been defined by war, conflict, and confrontations. Ever since humans gained their superior intelligence and sociability, there have been clashes. Then, wars were fought for survival and now, they are fought for dominance and pride. Then, the weapons used were sticks and stones and now, they are fought with weapons that surpass the fury of gods and possess world-ending powers.

The first question that ponders is why do humans fight wars? To understand the answer to this question, we must understand what exactly war is. The bookish definition of war is 'an armed conflict between states, societies, or communities.' It's never that simple in reality. In reality, wars are just two opponents pulling the strings to take each other down. Wars are like a game of chess, pawns get slaughtered and meanwhile the kings keep getting stronger. A true soldier fights not because he hates whom he fights against, but because he loves what he fights for. Ironically, wars are fought to establish peace, but they also set the stage for more conflict. Wars are fought to win freedom, but also to snatch it away.

Let's get back to our root question. Why do we fight wars? Well, there are many reasons behind this. There are several causes of war, like economic or territorial gains, vengeance, religion, nationalism, to overthrow tyrantregimes or to install them. War has become an inseparable part of human nature, a parasite, you might say.

Wars are powered by necessity and needs. Violence was hardwired into the human brain so that the most violent individual could survive the skirmishes that happened between early humans. Fast forward to today, the most influential countries of the world frequently use warfare to assert dominance.

Warfare does come with its own set of huge drawbacks. It has the potential to lay waste to entire civilizations. Wherever there is war, innocent blood is spilled. The economy of the country goes reeling down the hill. Furthermore, it is an endless cycle of revenge which remains. For instance, World War- I was started with the motive of being the final war, the war to end all wars, to suppress hostility from any country of that time. Soon after, an even deadlier war broke out i.e. World War- II. Our weapons get deadlier as time passes and this poses a threat to our planet. Some nations have developed a nuclear arsenal so vast that it has the power to desolate the entire planet. Such a phenomenon is called Mutually Assured Destruction. For this reason, the threat of an all-out war is a threat to the planet.

Warfare has played an important part in shaping our history and will play an even more important part in shaping our future if we succeed in preventing it. The human race must learn to solve conflicts peacefully, or if not possible, prevent escalation of hostility. There is no glory in battle worth the blood and lives we lose.

Prathamesh Totre
SE Chem

Resurgence – Life After Covid-19

Every generation has a defining moment. Something that only happens once in their lives, for the better or for the worse. The birth of the Internet, World War 2, Man on Moon, all of these events defined an entire generation. The Covid-19 pandemic is one such event. Something unforgettable that disrupted everything and brought in the tides of change.

Despite the hardship, the unyielding human spirit managed to adapt quickly. We shifted our work online, we got our groceries delivered through apps. Social gatherings were limited to video calls and embraces were done through emojis. These drastic changes did have an impact on the mental health of many individuals. Humans are social creatures. If the social elements of life are impacted, many adverse effects are seen. But such is life, and life goes on.

After 2 years of experiencing life in the pandemic, many got used to this life. You wake up, you attend classes or work from the comfort of your home with all the facilities right in the palm of your hands. Some argued that life was better in the pandemic. But it can't compare. How can you beat the feeling of being next to your friend, sipping on a cup of coffee while discussing a book? What can compare to the forced second servings of your favourite food made by your grandma, while she is insisting that you eat some more food? How can you beat the roar of a packed movie theatre when the hero shows up on screen? What can replace the embrace of a loved one?

Life in the pandemic without a doubt had a lot of benefits. But it is a terrible life when compared to life before the pandemic and the way ahead is to combine the best parts of the pandemic life and the pre-pandemic life. Incorporating the best of both worlds with the evolving time is how life should ideally be after Covid-19. Nothing can replace or bring back the time, experiences and lives lost during the pandemic, but the faster we adapt to the 'new normal' lesser will be the time lost further.

Swarnim Mudaliar
BE Comps

SABR

Sabr (patience). Maybe that's what we need to seek. Not love, happiness, satisfaction or peace. Sabr-that's all we need to get through life with all its trials, hurdles and tribulations. To find strength and solace when you feel hopeless, to find air when you feel suffocated in an open field. You need sabr when things aren't going your way regardless of how relentlessly you work towards achieving your goals and aspirations. You need sabr when you're the one sitting besides a loved one as they breathe their last. Regardless of how helpless you feel, sabr is what seems to keep you sane.

You need sabr when a person you care for and love is hurting and you want to comfort them in their pain, but you don't know how to. You need sabr all the time in your life. There will be days when you will feel powerful enough to move mountains with your bare hands, on other days the weight of your heart will feel too heavy for your ribcage to hold. Remember both days you're growing. You need sabr to believe that your hardships and sadness won't last. Nothing in this world ever lasts. Every test you go through will empower you to do better.

So while I end my thoughts here I'd like to leave you with this -

Pray for Sabr when things aren't favourable. Pray for Sabr when things are going your way. Pray that your loved ones find sabr and so do you. I hope whatever is hurting you, you've the patience to see through the pain and that one day you will be staring at the blessing you always used to dream about. And Remember Inhale Sabr, Exhale Shukr (gratefulness), Live Life.

Emad Desai
BE Chem

THE IMMORTALS OF THE 1990'S

Football was a sport until the 70's and became an emotion after the 1970 FIFA world cup. German football went through a drastic change and became better with the emergence of the precursors, Bayern Munich and other clubs. Italian football, thanks to Giovanni Trapattoni's tactics, Juventus's reign extended from the mid 70's to mid-80's. With Platani and Boneik not stopping, they made all the teams in the 'sire A' strive a little hard for victory.

Then there was a big club who were out of their Glory days and were looking for something big, but flopped miserably due to a lot of problems. After Silvio Belsicorni bought the club in 1986, he hired an Italian Coach named Arrigo Sacchi. AC MILAN'S fate changed in a few games after Sacchi was appointed as the manager. Arrigo Sacchi was one of the first men who relied more on tactics and how it suited his players rather than solely relying on his player's skills. He implemented the 4-4-2 in a very different way with a high defensive line with best centre backs staying at the back and fullbacks running away to attack. This was a defensive mid in the middle in the form of Sebaic and two aggressive strikers. This AC Milan Team won 3 league titles in a row and 2 champions league in a period of 5 years. In the late 90's this similar formation was implemented by Sir Alex Furgeson with his dream team 'Manchester United'. ManU gave the world stars such as Beckham, Yorke, Gigs, Scholes, Stam and Roy Keane. This team won the treble (winning all 4 single major association football competitions in the same year) in 1998.

German football too saw changes with Bayern Munich declining and new teams taking the podium. Ottmar Hetschfeld was one of them. He was a firm believer of playing conventional football in an unconventional manner; he used few of Arrigo Sacchi's tactics combined with his own. One of the highlights being of a sweeper keeper, that is pushing the goalkeeper much ahead rather than them staying behind. This resulted in the full backs overlapping and creating an offside trap. This trend was adapted throughout the 90's until 2000's where the focus shifted from a very defensive and conservative approach to a very attacking and dynamic approach. It focussed more on a player's position rather than individual skill making football way more complex than it looks. The 90's changed the game for the good and gave the world legendary players and managers. As the uncertainty increased, the game improved and players evolved.

Aakash Singh
BE IT

ती सावित्री होती

ज्ञानाच्या सागरातून काही थेंब ओंजळीत घेऊन ती
निघाली होती
मुलींच्या शिक्षणाची वाटचाल जिने सुरू केली, ती
सावित्री होती!

मुलींच्या शिक्षणासाठी जी साऱ्या समाजाशी
लढली,
तुमच्या हितासाठी जी अहोरात्र झटली, ती सावित्री
होती!

शिक्षणाची ओढ जोपासणारी ती क्रांतिकारी मूर्ती
होती,
मानवी समाजाच्या विकासाची जी किर्ती होती, ती
सावित्री होती !

पहिली महीला शिक्षिका म्हणून जीची ख्याती
होती,
जिच्या नसा-नसात मराठी माती होती, ती सावित्री
होती!

समाजात ज्ञानाची ज्योत जीने पेटवली होती,
अज्ञानाचा अंधकार जीने दूर फेटला ती सावित्री
होती!

ज्योती म्हणत ज्यांनी धरला हातात हात,
सावित्री म्हणत निभवली साता जन्माची साथ, ती
सावित्री होती !

Chaitali Padalkar
SE IT

लेखणी

आज झाले नवलच,
ती अवचित जीवनी आली
विसर पडतोय का माझा?
मिशकिलपणे म्हणाली.

कालवाकालव झाली तिची,
पाहता माझा अबोला
दडलंय काय मनी तुझ्या?
म्हणे सांग ना गं मला.

तिने पाहिलं माझ्या डोळ्यात,
माझ्या कल्पनेतलं जग
हलकेच कानी म्हणाली,
मला अजमावून तर बघ.

मन व्यक्त करण्यास
जिथे अपुरी पडली वाणी,
संवादाच्या मर्यादा लांघून
मग हाती आली लेखणी...!

Tejaswi Jadhav
SE IT

BROKEN ROCK

The rustling breeze showered on the
dried leaves of those red maple trees.
The glowing moon in the obscure
darkness,
curtained by clouds incidents its hope
on me
to not let the afraid 'Me' conquer the
optimistic 'Me'.
But even after the spotlight
I am invisible to the world now.

I have become invisible to the world
now,
the world where everyone moves on
ahead without me,
clasping their hands, embracing and
aiding each other in their needs,
laughing and walking under the dim
light streets.

I stand afar, shut the doors of heart
and sentiment lock
still, stand like a broken rock.
That small, insignificant pebble look
rock that cannot move ahead
because it was never taught how to
wallow and roll ahead.

Suddenly the wind blows and carries
me onwards ahead
ponder me to not see back any head,
do not want to see back any unlovable
head.

Shreya Roy
SE CHEM

Dream

We met that evening, by an unknown
street,
I was taken aback with that sudden greet.
The same shining eyes sparkling bright,
That's when you held my hand tight.

You pulled me away by a quiet shop,
You were so euphoric, you couldn't talk.
You softly uttered, "what took you so
long",
I said we had the timing wrong.

You embraced me with joy,
Like a kid who got a toy.
With your hair brushing my face,
Seemed like the world lost its pace.

You gave me back my peace,
Which for long was on a lease.
All I want is for you to stay,
That's all I'm left with to say.

Finally our lives were changing tracks,
After enduring a few cracks,

Everything will now be fine it seemed,
Until I woke up from that dream.
Until I woke up from that dream.

Ameya Deodhar
TE Comps

Those were the days

Every red ink stain that we sustained,
 We grew stronger and bolder,
 Our blank canvas filled with these crimson
 strokes,
 Portrays the future that we hold,
 These stains and strokes became our badges of
 honor,
 The picture that we painted wasn't enough to
 reach the dream land,
 We have to gamble our souls in a strange card
 game,
 Where even with a royal flush we are doomed
 to lose,
 Since it was Jokers play along,
 Proving that we were the fool along,
 Soon enough we dive into endless void of time,
 We leave everybody behind,
 Everything we cherished perishes into stories
 that end with "those were the days"
 Eventually we get the chance to relinquish into
 the ecstasy of life,
 We dive into to the river and everything within,
 And are reborn with every mile stone we
 achieve,
 Still I wonder,
 Will "those were days" ever return?
 Akanksha Joshi
 TE IT

Pixie dust

Every night and every day
 You pulled me closer, in a blissful way
 In your eyes I saw, a promise of love
 It felt unreal, blessings from above
 I danced through the streets,
 I laughed without a reason
 Some wondered what he eats?
 It felt like daisy's season
 Each day I waited for you
 Each day I smiled
 I wondered what it meant to me
 I felt like destiny's child
 Days passed and closer we came
 Through our silence we took each
 other's name
 And while I was on cloud nine
 I forgot to ask would you ever be mine?
 But alas! The destiny's tide turned
 Dreams shattered, my heart burned
 The nights got darker, the days felt long
 All the world ran through me, I stood
 still
 Won't she ever come back, No she never
 will.

Ram Gopal Sharma
 SE EXTC

CUNNING WOMAN

Worm on the
Fairest Fruit
Allergic to reforms
Healthy Cunning
Container
Rival to hearts.
O Woman! O Woman!
Sly slippery Art.
Knave and
Talented manipulator
Vulpine aura sharp
Divine traitor
Sunken beauty
Devious achievers part
O Woman! O Woman!
Low lampoon art.

Dr. Anuradha Shukla
Assistant Professor
Applied Science Dept.

ART GALLERY

Art
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Shivam Devhare
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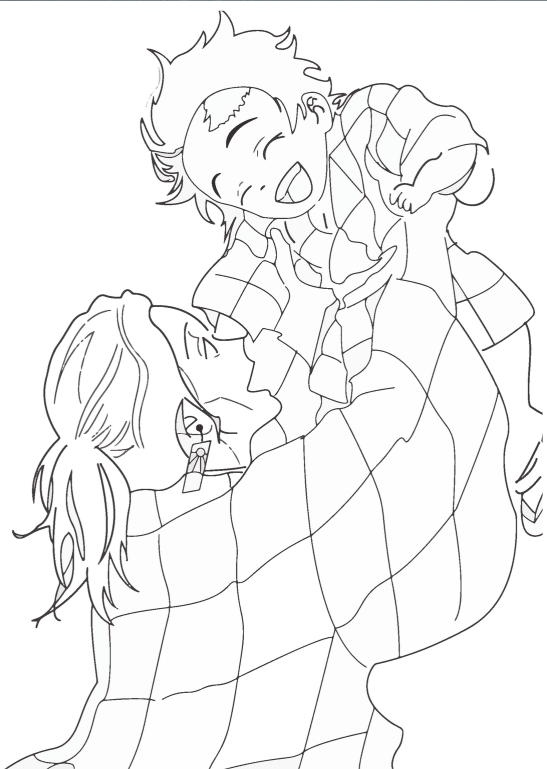


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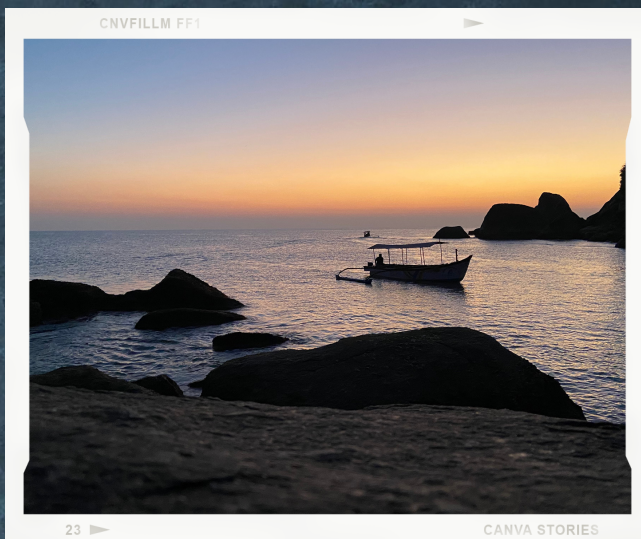


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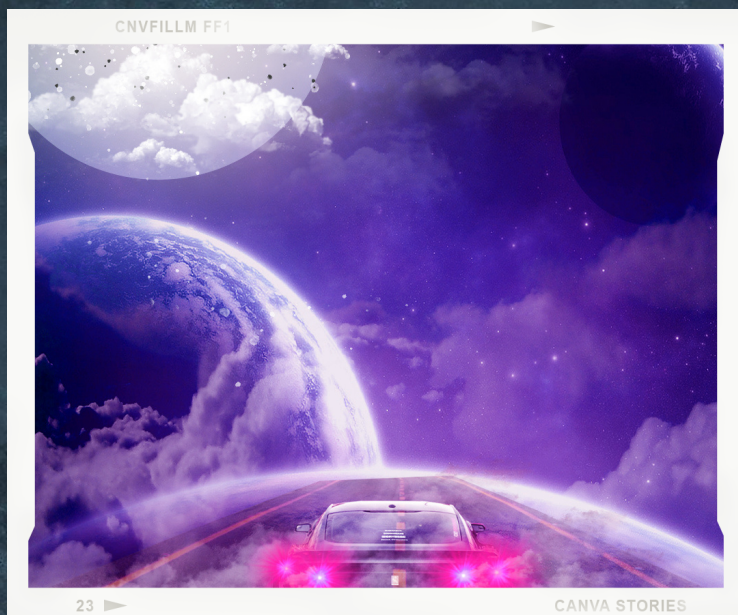


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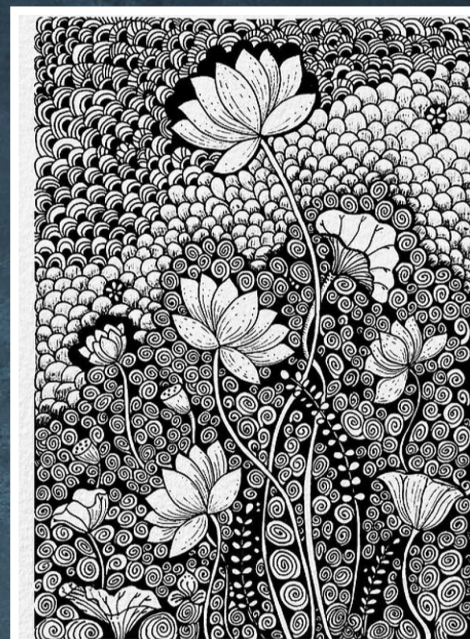


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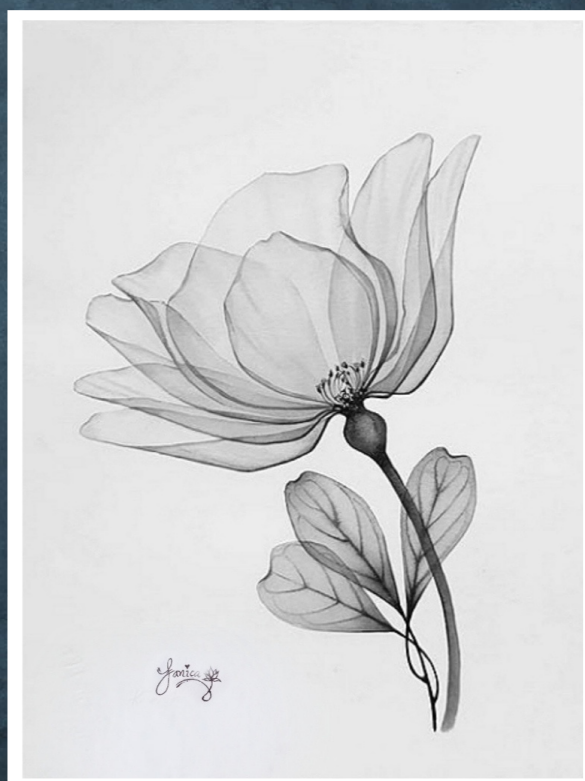
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Sanica Jawale
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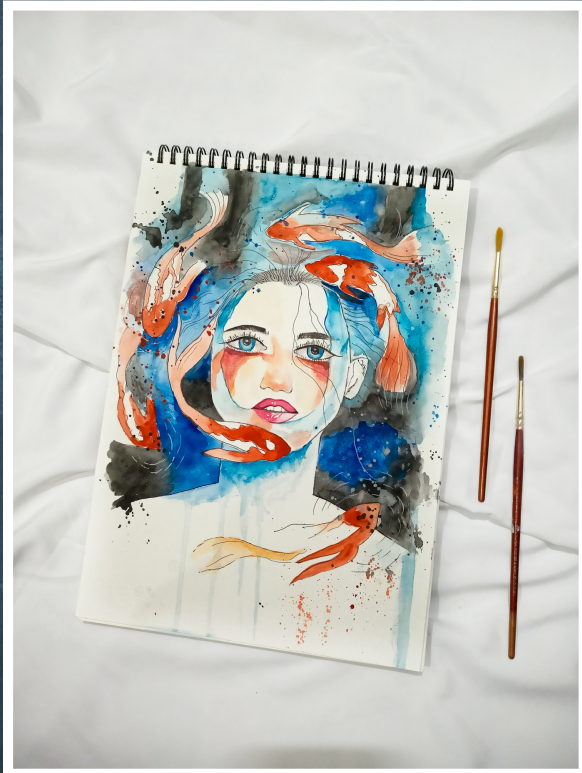
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TE EXTC

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