



**BHARATI VIDYAPEETH**  
(DEEMED TO BE UNIVERSITY)  
**COLLEGE OF ENGINEERING, PUNE**

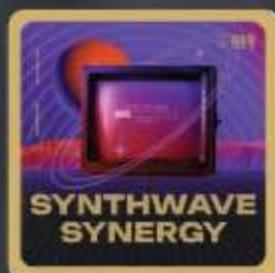
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BVIDUJODERS  
**BHARTIYAM**  
28<sup>TH</sup> FEB - 3<sup>RD</sup> MAR  
2025

ISSUE : 33

# GENRE

2024 - 2025



# **Vision**

To be a world-class institute for 'Social Transformation through Dynamic Education'.

# **Mission**

- Provide quality technical education with advanced equipments, qualified faculty, and modern infrastructure.
- Foster an environment of innovation, creativity, research, and entrepreneurial leadership.
- Promote professional ethics, transparency, and accountability for societal, economic, and environmental growth.
- Ranked 131st among the Top 200 Private Engineering Colleges of India (NIRF 2024).
- AICTE-Internshala: 20th at the national level, 2nd in the West Zone for Best Internship Record
- Top 50 Private Institutes of India (ATAL Ranking).
- India Today: 18th overall, 5th in West Zone for Private Engineering Institutes.
- Ranked among the top 100 universities in India successively for nine years by NIRF.

# **ACHIEVEMENTS & RANKINGS**

- BV(DU) COE, Pune got NIRF ranking between the 151-200 Band.
- Programs Accredited by NBA, New Delhi.
- India Today-2024 (18th rank among best private engineering institute).
- Times of India-2024-25 (31st rank in overall ranking).
- DATAQUEST-T- School- 2024 (20th rank at all India level and 15th among private institute, 3rd in west zone).
- Outlook- 2024-25 (18th ranked among top 100 Engineering Colleges of India).
- Ranked 1st in Maharashtra and 2nd in West Zone by Indian Institutional Ranking Framework (IIRF) for Placement 2024-25.
- Awarded with best engineering Institute by Institute of Engineers India (IEI) Engineering Education Excellence Award 2023.
- Awarded with India's best engineering Institutes 2024 by CARRIER 360 With AAAA Grade.
- Institution's Innovation Council (IIC) of BV (DU) COE has secured 3.5 out of 5 stars for the year 2023-24 and attained position in Top 150 IIC Councils.



**Hon'ble Dr. Patangrao Kadam**  
Founder Chancellor, Bharati Vidyapeeth, Pune

## SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



## SOCIAL TRANSFORMATION THROUGH DYNAMIC EDUCATION



# FROM THE DESK OF THE CHANCELLOR



**Dr. Shivajirao Kadam**  
Chancellor  
BV(DU), Pune

It gives me immense pleasure to hear that Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, is publishing its annual college magazine, Genre 2k25. My heartiest congratulations to the principal and the entire faculty on this achievement.

The magazine's theme, Synthwave Synergy, celebrates the perfect harmony of nostalgia and innovation. It's a journey through time, blending recollections of the past with the limitless possibilities of the future. Like the endless rhythm of a synthwave track, it pulsates with energy, creativity, and innovation. Choosing Synthwave Synergy as a theme demonstrates a commitment to intellectual engagement and promises to resonate deeply with readers. I admire the selection of such a meaningful theme.

Furthermore, this magazine stands as a testament to the collective efforts of faculty and students in fostering a culture of learning and creative exploration. It is through such endeavors that students develop a holistic perspective, learning to appreciate diverse viewpoints while honing their analytical and literary skills. The dedication and enthusiasm that go into curating and compiling each edition are truly inspiring, and I am confident that Genre 2k25 will be a valuable addition to the legacy of the institution.

I offer my sincere best wishes to Dr. Rajesh Prasad, his colleagues, and all those involved in the publication of Genre 2k25. I express my gratitude to the faculty and students whose contributions of thought and creative work enrich its content. May this magazine continue to inspire and ignite the spirit of innovation among its readers for years to come.

# FROM THE DESK OF THE PRO VICE-CHANCELLOR



BHARATI VIDYAPEETH  
COLLEGE  
UNIVERSITY  
ENGINEERING, PUNE

## Dr. Vishwajeet Kadam

Secretary, Bharati Vidyapeeth & Pro Vice-Chancellor, BV(DU), Pune

It is an occasion of joy that *Genre 2k25*, the annual college magazine of Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, an indelible part of Bharati Vidyapeeth (Deemed to be University), Pune, has successfully unfurled into its 33rd edition in 'Genre 2k25'. This year's magazine embraces the futuristic theme of "Synthwave Synergy", capturing the essence of progress, innovation, and collaboration in an ever-evolving digital era.

The theme ignites the spirit of exploration and creativity among students. "Synthwave Synergy" represents the seamless fusion of technology and human ingenuity, where the past and future blend into a neon-lit journey of discovery. Recognizing the importance of interconnected ideas, teamwork, and digital transformation, this theme fosters a mindset of adaptability, innovation, and synergy which are essential qualities for the engineers of tomorrow.

With deep respect to Patangrao Kadam Saheb's vision, I take immense pride in witnessing how the college continues to advance, moving closer to his dream of fostering technical excellence while shaping individuals with strong moral values and ethical responsibility. I extend my heartfelt congratulations to the editorial board for their relentless dedication, which has once again resulted in the remarkable success of 'Genre 2k25'. This magazine stands as a testament to your unwavering commitment and passion. My best wishes go out to the entire team behind 'Genre 2k25', may your creativity and synergy continue to illuminate new pathways for the future.



# FROM THE DESK OF THE VICE-CHANCELLOR



**Dr. Vivek A. Saoji**

Vice-Chancellor  
BV(DU), Pune

It is a matter of great pleasure that the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, a major unit of Bharati Vidyapeeth (Deemed to be University), Pune, is going to publicize Genre 2k25, the official annual magazine for its students. I am really delighted to know that this year's theme is Synthwave Synergy. I am genuinely impressed with the performance and achievements of the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune. Ever since its foundation in 1983, the college has made an immense contribution to fulfil the words of our revered Founder-Chancellor, the late Dr. Patangrao Kadam Saheb, who envisioned an institute that could provide "Social Transformation through Dynamic Education. The college has proven track record of moulding excellent engineers in all fields, technical and non-technical, by organizing and conducting various curricular, co-curricular, and extra-curricular activities for its students.

This year is the 33rd edition of Genre, and the theme of this annual magazine, Synthwave Synergy, it evokes a retrospective look at my life, allowing me to appreciate the grace of nostalgia. The "synergy" element highlights collaboration, teamwork, and the fusion of art, culture, and technology, reflecting the essence of engineering beyond engineering. Similarly, in engineering, a systemic thinking approach recognizes the interconnected nature of components within a system. Engineers should strive for holistic solutions that consider the broader impact and relationships between various elements.

I am confident that the annual publication "Genre 2k25" by the Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, will stand as a lasting source of inspiration for fellow engineering students. I extend my sincere congratulations to the faculty, students, and editorial board for their dedicated efforts in producing this yearly magazine.

# FROM THE DESK OF THE PRINCIPAL



**Dr. Rajesh Prasad**  
Principal  
BV(DU)COE, Pune

I am thrilled to share with you the essence of Bhartiyan 2k25, our cherished annual techno-cultural fest, where we proudly showcase the talent, achievements, and brilliance of our students. They strive to bring out the best in themselves across a multitude of domains, honing skills such as leadership, teamwork, and creativity. What once started as a small but passionate initiative has now evolved into one of India's most-awaited and dynamic college fests, a testament to our unwavering spirit and dedication. Within the pages of our beloved annual college magazine, "Genre 2k25," we capture the essence of our institution through a diverse collection of poems, articles, insightful perspectives from various organizations, and contributions from both students and faculty members. Each edition revolves around unique theme, making it an ever-evolving reflection of our creative and intellectual pursuits. I am excited to announce that "Genre 2k25" is back with a bold and futuristic vision.

This year's theme, "Synthwave Synergy," encapsulates the fusion of technology and creativity, harmony between human ingenuity and digital evolution. It represents a electrifying neon journey where innovation meets nostalgia. Just as synthwave music fuses retro aesthetics with modern electronic sounds, we, too, embrace the past while propelling ourselves into the future. This theme symbolizes our commitment to continuous progress—always adapting, always advancing. The editorial board, with unmatched zeal and dedication, has worked tirelessly to weave together the voices and ideas of our college community. Bhartiyan and "Genre" have always complemented each other, growing together as beacons of talent and vision.

I extend my heartfelt gratitude to all our faculty members for their unwavering guidance and support, and to our students—the true architects of this institution—whose relentless efforts continue to push boundaries and redefine excellence. With our combined passion and perseverance, I am confident that Bhartiyan 2k25 will propel our institution to even greater heights.

# FROM THE DESK OF THE VICE-PRINCIPAL



**Sachin Chavan**

Vice-Principal  
BV(DU)COE, Pune

It is a matter of great pride that our official college magazine is being published yet again. The theme is Synthwave Synergy, this edition reflects the fusion of technology and creativity, symbolizing our journey into the future while embracing the past. This magazine itself is a proof of perfect synchronisation and team work along with the beautiful designs which implements the idea of synthwave.

It is, therefore, a joy to welcome Bhartiyam 2k25 once again! Our techno-cultural fest provides students with an unmatched platform to showcase talent, push boundaries, and grow beyond fear and hesitation. Bhartiyam has always been a testament to teamwork and collaboration, bringing together students from all disciplines to create something extraordinary. It's the time which embraces creativity, technological innovations and fun.

I congratulate the Editorial Board for carving this magazine and contributing to Bhartiyam 2k25. Your dedication and passion is truly commendable. The whole idea of Genre is to preserve the boon called as writing given to the mankind. This magazine not only depicts a student's connect with literature and innovation but the pinnacle of creativity as well. This process gives the college a sense of pride in it's students who are capable enough to curate a magazine from scratch. Wishing you all the best in this electrifying journey!

# FROM THE DESK OF THE VICE-PRINCIPAL



**Dr. Sunita Jadhav**

Vice-Principal  
(Research & Accreditation)  
BV(DU)COE, Pune

When I was informed that our college is publishing another edition of the annual magazine, *Genre*, I couldn't be prouder. This year's theme, *Synthwave Synergy*, is both captivating and inspiring for readers.

Synthwave represents the fusion of past and future, blending nostalgia with innovation. It mirrors the journey of technology and creativity, much like the evolution of engineering—where ideas are reimagined, refined, and revolutionized. This theme encourages young engineers to embrace the synergy between tradition and progress, pushing boundaries while staying rooted in fundamentals.

Beyond its aesthetic and conceptual appeal, *Synthwave Synergy* also symbolizes the ever-evolving landscape of knowledge and discovery. Just as synthwave music reinvents classic sounds with futuristic elements, engineering and academia thrive on the reinvention of ideas. This theme reminds us that progress is not just about moving forward but also about learning from the past, integrating lessons with fresh perspectives, and continuously innovating to build a better future.

The publication of *Genre* is a testament to the hard work, dedication, and creativity of our students and faculty. It serves as a platform for intellectual exploration, artistic expression, and meaningful discourse. My heartfelt appreciation goes to all those who contributed to this initiative our writers, designers, editors, and, of course, the incredible students who brought this vision to life. May this edition inspire and motivate its readers to embrace creativity, passion, and the endless possibilities of innovation.

# FROM THE DESK OF THE CHIEF GUEST



**Hrishikesh Dhandhe**  
Regional Manager  
TCS, Pune

The digital age is a pulsating realm of infinite possibilities, where innovation and creativity converge in perfect harmony. The theme of this year's Bharatiyam, 'Synthwave Synergy,' beautifully encapsulates the fusion of retro inspiration and futuristic vision, a testament to how technology evolves by blending the past with the future.

The magazine Genre 2K25 by Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune is a brilliant manifestation of this idea, where the ingenuity of young engineers breathes life into new possibilities. The dedication of students and faculty in bringing this fest to life is truly commendable. As we navigate the ever-evolving digital landscape, let us continue to push boundaries, create, and innovate. Congratulations to the editorial board for curating such an inspiring edition! Seeing the visions of future engineers expressed in Genre 2K25 fills me with confidence and pride in the next generation of technological leaders.

Wishing Bharatiyam 2025 a resounding success!



# FROM THE DESK OF THE GUEST OF HONOR



**Mr. Rahul Aware**  
Wrestler & Arjuna Award Winner

In the dynamic arena of life, success is built upon resilience, adaptation, and the pursuit of excellence - principles that resonate with the electrifying theme of 'Synthwave Synergy.' Just as in sports, where strategy and agility define a champion, the fusion of innovation and creativity in technology shapes the future.

This year's Bharatiyam 2K25 is a testament to the dedication and spirit of the students and faculty of Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune. The magazine Genre 2K25 brilliantly intertwines the technical and creative aspects of human potential, much like the balance between strength and skill in sports. The editorial board has done an outstanding job in crafting a platform that reflects futuristic thinking, determination, and vision.

Congratulations to the organizing committee for orchestrating such a phenomenal event. Your hardwork has truly paid off, and I am honored to witness this remarkable celebration of passion knowledge, and synergy.

'Wishing Bharatiyam 2025 an electrifying success!'

## ABOUT BV (DU), PUNE

Bharati Vidyapeeth, Pune, was established in 1964 by Dr. Patangrao Kadam, a man from a humble background with abundant ambitions. What started off as a single college has now grown into a renowned educational group housing over 180 units, including 78 schools and 80 colleges.

Since the beginning, Bharati Vidyapeeth, Pune, has accomplished incredible progress in the realm of education. On April 26, 1996, it achieved the prestigious status of "Deemed to be University" by UGC and has since bagged the impressive rank of 78th by NIRF and an "A++" grade by NAAC.

This recognition has allowed and motivated it to form more than 50 connections with reputed educational establishments, both nationally and internationally. It includes North Carolina A&T University (USA), the University of Cologne (Germany), and Liverpool Law School (UK).

Situated in Pune's Dhankawadi-Katraj locality, Bharati Vidyapeeth (Deemed to be University), Pune's main campus sprawls over 85 acres, including a total built-up area of 3,45,600 square feet.

Encompassing a sports ground, 24 colleges across various disciplines, the flagship hospital, and other student facilities like hostels, canteens, a bank, etc. The self-sufficiency of this university is a guarantee.

In essence, Bharati Vidyapeeth, Pune, has transformed from a single institution to a leading educational force in India, providing diverse opportunities for academic excellence and fostering international connections.

## AN INTRODUCTION TO OUR COLLEGE

Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, established by Dr. Patangrao Kadam in September 1983, has operated as a constituent unit of Bharati Vidyapeeth (Deemed to be University), Pune, since June 2000. Approved by the All-India Council for Technical Education (AICTE) and the University Grants Commission (UGC), and several of its courses have been accredited by the National Board of Accreditation (NBA). Ranking remarkably on various lists, the college has bagged the 78<sup>th</sup> position amongst the Top 200 Private Engineering Colleges of India by NIRF-2024 and 2nd in West Zone for the Best Internship Record. It has even secured a position amongst the Top 50 Private Institutes of India by the ATAL Ranking of Institutions on Innovation Achievements and is ranked 18<sup>th</sup> in the overall ranking, 3<sup>rd</sup> in the West Zone for Private Engineering Institutes by India Today, 34<sup>th</sup> by the Time i3RC ranking, 20<sup>th</sup> by DATAQUEST, and 18<sup>th</sup> by Outlook. Adding to the list of accomplishments, the college has also received a 3.5-star rating out of 5 from the Institution's Innovation Council (IIC 5.0) for the academic year 2024-25. In 2023, the college was awarded the "Times Pune Mirror-Edu Excellence Award" under the category "Best Engineering College for Placement" consecutively for the second year. Amongst recent achievements, the college was graded AAAA by Career 360 on their list of India's Best Engineering Institutes 2024.

The college offers a wide gamut of graduate, postgraduate, and doctoral specifications in the field of engineering. The college holds its calibre and stature to an elevated standard of education and holistic development and strives to persistently maintain them. The college houses 101 laboratories, 43 classrooms, and 21 tutorial rooms. A five-storey library stands adjacent to the college building, which incorporates a massive collection of more than 70,000 books, including 279 national and international journals. In the past three years, more than 900 books and 90 journals have been added to the existing collection. Alongside the physical library, the college facilitates a digital library with the membership of DELNET and the AICTE

Consortium, providing access to over 2600 e-journals and more than 6 lakh individual documents compiling various subjects. Subscriptions to renowned academic journals and periodicals make more than 5,500 national and international journals available to students. Along with that the college also provides an incubation center to support start up ideas by the students.



## TRAINING AND PLACEMENT DEPARTMENT

The Training and Placement Department at Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune, plays a vital role in shaping students' careers by providing excellent placement opportunities and skill enhancement programs. They foster strong connections with top companies across various industries, ensuring students secure the best career opportunities.

Associated with companies like HSBC, Alliance Bernstein, ICICI Lombard, Tata Communications, IBM, Accenture, Juspay, Uno Mindia, Mahindra & Mahindra, Mahindra Lifespace, Ashok Leyland, Growup, LTI Mindtree, TCS, Cognizant, Capgemini, and Infosys, students secure roles in diverse fields like engineering, management, and beyond. Salary packages range from 4 LPA to 24 LPA.

Beyond placements, the department emphasizes holistic career preparation, including mock interviews, aptitude test practice, resume-building workshops, and industry-specific training sessions. They focus on seamless industry communication, strategic coordination, and effective execution of recruitment events. By integrating these essential practices, they equip students with the confidence and expertise needed to thrive in competitive job markets.



"Synthwave Synergy" is the ideal fusion of expertise, creativity, and career advancement at the Training and Placement Department. The department links academic learning with industry expectations, much like synthwave combines futuristic vision with retro elements. Each obstacle overcome and every achievement unlocked contribute to the beat of a student's journey toward professional excellence. By focusing on imparting cutting-edge skills, the department empowers students to thrive in an evolving job landscape. Their mission is to connect students with top-tier companies, reinforcing the institution's standing. They anticipate a year brimming with fresh opportunities, remarkable success, and boundless potential.



**Prof. Dr. Pramod V. Londhe**  
Head, TnP

Bharati Vidyapeeth College of Engineering, Pune, hosted an insightful seminar featuring Mr. Himanshu Shekhar from DRDO and Mr. S.V. Marathe from Coal India Limited, providing students with valuable insights into advancements, career opportunities, and challenges in the defense and energy sectors. The session highlighted DRDO's role in national security and Coal India's sustainable innovations, sparking curiosity among aspiring engineers. We extend our gratitude to both speakers for sharing their expertise and inspiring students, reinforcing the importance of innovation, continuous learning, and dedication in shaping successful careers. Prof. Dr. Pramod Vilas Londhe, Head of the Department, has greatly enhanced collaboration between the industry and the college. His vast experience has played a key role in establishing the department's strong reputation for facilitating outstanding placement opportunities.

#### Awards and Recognition Received by the Department:

1. NIRF University Ranking - 78 | NIRF Band Ranking 151-200
2. NAAC A++ | NBA Accreditation
3. 20th Rank at National Level by AICTE Internshala
4. 17th Rank by Times of India & 14th Rank by Outlook
5. 12th Rank by India Today & 3rd Rank by DATAQUEST
6. IIC of BV(DU)COE Secured 3.5 out of 5 Stars
7. Pune Mirror Award 2021-22 & 2022-23
8. Career 360 Award 2021-22 & 2022-23
9. IIRF (Maharashtra Zone Rank-1)

The placement record of last year was remarkable, with an 85% placement rate, with the highest package of 11.5 LPA by Alliance Bernstein, 12.5 LPA by UBS, and 18 LPA by RT Camp.

In the current year, 61 companies have visited our college, with the highest package of 24 LPA by Axtria, 11.5 LPA by Alliance, 19 LPA by Icon and 12.5 LPA by UBS.





## NATIONAL SERVICE SCHEME

### Achievements

National Integration Camp 2024 Bengaluru City University, NSS Cell, organized the National Integration Camp 2024 in Bengaluru. In this camp, 100 volunteers from all over India participated. Two volunteers, Vaishnavi Borkar (Department of Robotics and Automation) and Divyanand Singh (Department of Computer Engineering) from the BVDUCOE Pune NSS team, won Best Volunteer Award and Best Team Leader Award. During camp activities, our college's volunteers participated in dramatics and singing. Vaishnavi Borkar participated in solo singing competition.

NSS provides opportunities for students to engage in community service and contribute to the welfare of society. NSS volunteers participate in various social, environmental, and community service activities which include blood donation camp, health and hygiene campaigns, tree plantation, and many more. NSS volunteers take part in various educational activities, such as instructing underprivileged children, guiding students on careers, holding workshops, and spreading awareness about digital learning. These efforts help people gain knowledge and develop important skills for a better future.

The National Service Scheme of Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, successfully organized a two-day Swachh Bharat Abhiyan aimed at promoting cleanliness. As part of this initiative, a cleanliness drive was conducted, during which volunteers took the lead in cleaning nearby public areas, including the bus stand. To further emphasize the importance of cleanliness, a human chain was formed to raise awareness among the community. Additionally, another rally was conducted to spread awareness about Traffic Rules and Road Safety, underscoring the significance of responsible driving and pedestrian safety. We witnessed the enthusiastic participation of more than 60 volunteers, who actively engaged in both initiatives. Through impactful slogans and dedicated efforts, they effectively conveyed the importance of maintaining cleanliness and respecting road safety regulations contributing to societal well-being.







## INSTITUTION'S INNOVATION COUNCIL

The Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in formative years.

MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' across selected HEIs. A network of these IICs will be established to promote innovation in the Institution through multitudinous modes leading to an innovation promotion eco-system in the campuses. It is our proud privilege to announce that Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune has been selected to establish the council in 2018.

The IIC Council of BV(DU)COE, Pune remains committed to fostering a culture of innovation and entrepreneurship among students and faculty. By bridging the gap between real-world entrepreneurs, innovators, and the academic community, the council continues to facilitate meaningful connections that enhance learning and practical engagement.

### Council Structure:

1. Innovation Cell: Oversees the organization and coordination of innovation promotion activities while also supporting other initiatives.
2. Start-up Cell: Manages start-up promotion efforts and provides assistance for related initiatives.
3. Internship Cell: Facilitates internship opportunities and connects students with start-ups, innovation labs, and incubation centers to encourage innovation while extending support to other activities.
4. Social Media Cell: Handles social media promotion, public relations, and communication of various innovation-related activities while assisting in other initiatives.





Photography is much more than just having a camera and taking pictures. A Newly formed club, CLIXZY, is the Photography and cinematic crew of BV(DU)COEP who knows what makes a photograph "good". We not only focus on capturing the best moments of our life at college rather but also provide a platform to enthusiasts to showcase their talent and hone their skills by learning from the vast experience of our skilful team. During our short interval of three months working, we have covered the Alumni Shoot of our college and made videos portraying the wonders of the campus. We are looking forward to engaging and connecting with even more people in the future. CLIXZY is the first and only official cell of BVDUCOEP which works ON-Camera. Future prospect in Clixzy is that we are working with amateurs and transforming them into photography majors by conducting workshops and equipping them with skills in domains like photography, cinematography, video editing and a lot more. And with this strategy we can assure that a day will come when Clixzy will be the synonym of photography. We have set in motion a cycle which will help many yet to come. And as they say-WE HAVE NOWHERE TO GO BUT UP. Clixzy plays a very vital role in the college as photography is all about capturing the moment. We showcase the best of our work by capturing all the moments very keenly and precisely. Being the "official photography cell" of the college we hold utmost dignity in enhancing and showcasing our talents in all sorts of official shoots and events. Clixzy from day one has started its work with full throttle. First of all we started off with an Alumni shoot where we covered the meet of all the successful alumni. Following this shoot we organised a fun event 'MURDER MYSTERY' which was mainly based for freshers to get friendly with seniors and college campus. We also conducted shoots of all the department with their respective HODs, to let all the students become familiar with their faculty and institute's base.



## THE EDITORIAL BOARD



**The Editorial Board 2024 - 2025**

## SENIOR EDITORS



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SEM VI, CE



Aditya Ranjan  
SEM VI, CE



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SEM VI, Mech



Atul Raj  
SEM VI, CSE



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SEM VI, ECE



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SEM VI, ECE



Shayan Kumar  
SEM VI, ECE



Suhani Kulshrestha  
SEM VI, CE



Swaroop Mishra  
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Ashmit Vyawahare  
SEM II, Mech



Ayush Wankhade  
SEM IV, ECE



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Aditya Bilala Jain  
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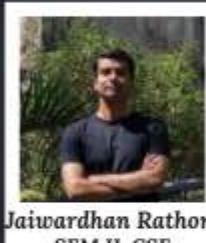
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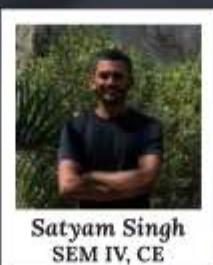
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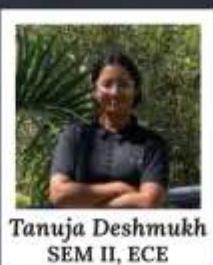
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SEM II, ECE



Vidhan Mishra  
SEM II, CSE

## EDITOR IN CHIEF



**Amrit Gyashan**  
**SEM VIII, E&TC**  
**Editor in Chief, Genre 2025**

When I was writing my testimonials for our college annual magazine, I realised that this Bharatiyam will be my last college fest as being the student of this wonderful institution. I am fortunate enough to become Editor-In-Chief of our college magazine.

As we embark on another exciting edition of Genre, I am thrilled to present a collection of stories, ideas, and experiences that reflect the vibrant and diverse spirit of our campus. This issue captures the energy of our students, the achievements of our community and the voices that continue to shape the world around us.

Each article and contribution in this magazine is a testament to the talent, creativity, and passion that thrive within our college. It is my hope that this magazine inspires you, challenges you, and sparks meaningful conversations that extend beyond these pages. I am really thankful to my Editorial team, every eagle-eye editor and creative designers, this magazine is a result of your unmatched dedication.

Coming to theme of this year Bharatiyam, I welcome you all to electrifying energy of Synthwave ! A fusion of retro-futurism and modern aesthetics that mirrors the very synergy we strive to achieve in our work. Just like the pulsing beats and vibrant hues of synthwave, our efforts are a blend of tradition and innovation, pushing boundaries while respecting the foundations that brought us here.

## EDITOR IN CHIEF



**Nalini Jain**  
SEM VIII, CE  
Editor in Chief, Genre 2025

Some experiences in college leave a lasting impact , they forge not only new skills but also a certain magical feeling towards teamwork, creativity, and shared achievements. Being the Editor-in-Chief of Genre 2K25 has ventured into becoming one more ineffaceable journey. What started as responsibility soon transformed into an exciting journey, one filled with countless fun moments.

This experience taught me the core essence of leadership, and the strength of collective action. But more than that, it has given me memories that I would cherish and like to carry forward to eternity moments of merriment, resilience, and a shared sense of success from a team that turned this dream into a reality. This magazine is nothing like words and pictures on pages but more of a canvas upon which an amazing team find themselves portrayed.

Each individual radiates a unique energy, creating a synthwave inspired ambiance that blends seamlessly with the serene beauty of the magazine. It contains the energy of collective work, the synergy of shared aspiring thoughts, and the echo of every discussion, debate, and breakthrough that gave it life.

I am very grateful to all those who contributed their work, support, and effort in believing in this edition of Genre 2K25. As these pages unfold, I hope all of you submerge yourselves in the lively world of Synthwave Synergy as we all did while bringing it to life. Here's to a magazine that bridges eras, sparks conversations, and leaves an imprint on our collective memories.

## DESIGNERS' PHILOSOPHY



**Priyank Srivastava**  
SEM VIII, ECE  
Designing Head, Genre 2025

Designing is itself recommended as a work of art and the work of art will be noticed in the sections of Kafka to Roofied and of Pandora's to Icarus and it is so for the ideas and the innovations of our brilliant graphic designers.

After being the Joint Secretary during the third year in my department Electronics and Communication, I was pleased and honoured for being elected as the Designing Head in our GENRE 2025 Issue 33 edition. It was a unwavering experience for me to be in this position and work with a number of talented editors and graphic designers. We have tried to express our ideas and plans in the designing structures, which could be noticed in all the sections of the magazine.

Talking about the wonderful team of designers, Ashmit and Retik being in english, Veer being in technical, Yogesh handling the front pages and Suyash and Ayush single handedly designing the respective Hindi and Marathi sections, Piyush with the Tech clubs and Tarik with amazing Covers, Aman with the art circle, Ashish with the HOD's and Harshit with immersive QnA section, every one has played a unique and crucial role in the making of the GENRE 2025 magazine and showed the real aspects of a powerfull playing 11 as a group.

Designing has always been special for me as it provided me various opportunities, large networking and increased my vision of how to see things. I would be always be greatful for the way my paths have been designed as by my people and I wish every one best of luck for future.



# A REZENDEOUS WITH PRINCIPAL



**1. What are your thoughts about our college and your feelings about serving as its Principal?**

**Ans** – Firstly, thank you for this opportunity and I'm very proud to have joined this institution, being a student here has been a dream since my childhood. This is a very old institute with a history of over 42 years with its state of the art courses. The UG and PG programs here are taught very uniquely. Having the status of 'Deemed to be University', has its own unique qualities and advantages. Students are given the freedom to choose their streams from a pool of 10 - 11 UG and 8 PG programs. The 'NAAC' body has given our institute an 'A' grade in the first cycle and a score 3.6, with A++ grade in the fourth cycle. This shows the quality of education which the institute stands for. So, I am very fortunate to join this institute .

**2. In this day and age we are seeing an onset of multiple new avenues in digital and technical spheres. In that regard, what do you have to say about the importance of engineering in this country?**

**Ans** – It is an important question which is a part of our life, I believe. Engineering is always changing, the concepts are changing, the way it is taught is changing but the value of engineering programs and courses will remain the same due to its own reasons. Firstly, engineering consists of how you devise yourself, your living style, how you devise your environment, that is the way engineering courses are taught. Yes, with the evolution of engineering and the transfer of technology, engineering curriculums are changing, the engineering devices are transforming but the fundamentals of engineering which is to design and devise, or propose a model will remain the same, as per the requirements and applications. Engineering outcomes will change but the essence of engineering will remain the same. That's why engineering, be it in the digital world or wherever, the concepts will

change but engineering will remain engineering because the fundamentals are something that is required to run behind it all.

### **3. This year's theme is Synthwave Synergy. What are your expectations regarding that?**

**Ans-** Yes, I came to know about the meaning of the theme, that was a beautiful time and golden era which had a fusion of modern science, modern evolutions in all sectors of art, and it had the blend of old generation programs and styles of dance and music, so this seems to be the best blend. If you are trying to explore the beauty of the 80s and 90s, this will probably mark a big impact on the students. The involvement of students will increase this time around because it is a unique kind of theme and we are hopeful it will be liked by the students of our Bharati Vidyapeeth College of Engineering.

### **4. According to you, what is the prominence of art in an engineer's life?**

**Ans -** When I began teaching, I realised that engineering is a systematic approach to solving problems using science and fundamental principles, including theorems, proofs, and established facts. However, as the world around us evolves so does its applications and requirements change. Consequently, the way we apply engineering, science, and technology is also transforming.

Today, we live in a world that values skills. While many students acquire technical know-how, what truly matters is how artfully and effectively those skills are applied in real-world scenarios. This is where the value of art comes into play, science and management are taught in structured ways, but the key lies in how skilfully one integrates technology and scientific knowledge with creativity and adaptability.

Art has always held significance. When a problem, application, or requirement originates from humans, is intended for human betterment, or is driven by human needs, art naturally aligns with it. The perfect balance between art and engineering leads to the best outcomes whether for individuals, applications, or industrial solutions. Ultimately, integrating art with engineering creates a more harmonious and effective approach to both technology and life.

### **5. What is something you would like to say to the students since you have a good track record of leadership to your name?**

**Ans -** I have always believed that number one is number one, no second or third place can take its position. If we are striving for something, we must believe and affirm that we are the best. We are number one. While positions like second, third, fourth, or even hundredth exist, the fact remains that number one stands alone.

I firmly believe that Gen Z students have the potential to be number one, provided they are nurtured in an environment that allows them to pursue their interests. If an engineering student has a passion for music, dance, or any other field, they should strive to excel in it. There is no better alternative than giving their best. Engineering students often stand out in various career paths and professions because of their problem-solving mindset and adaptability.

Ultimately, I believe that students should always give their best, leveraging their capabilities, interests, and potential to achieve excellence in whatever they choose to pursue.



**6. What is one notable strength and one significant weakness you observe in our generation?**

**Ans -** As a teacher, professor, and principal of an engineering college, I must say that this generation is very fortunate to have grown up with highly intelligent devices at their fingertips. This generation has its own unique ideology, and as parents, myself included, we should respect those beliefs. However, if cultural values are instilled alongside these ideologies, this could become the greatest generation the world has ever seen.

**7. Can you please brief us with the motto of the college i.e., "Social transformation through dynamic education" and what it means to you?**

**Ans -** If you look into the history of BV, BVDU, and BVCOE (which are essentially the same and could possibly be combined as BV(DU)COEP), you will find that the honorable founder, late Shri Dr. Patangrao Kadam, envisioned the development of society through education. This vision is reflected in the institution's motto: "Social Transformation Through Dynamic Education."

Why dynamic education? Since this is a professional campus, the university primarily focuses on professional education. While a few traditional courses and programs are offered, the core of our institution revolves around professional courses. Adaptability and innovation are integral to professional institutions, programs, and curricula.

As society and communities evolve, our education system and its applications must also adapt. At BVCOE, we are eager to embrace these societal changes and integrate them into our academic framework to meet social and communal needs. This is why I firmly believe, on behalf of our faculty and staff, that the institution's motto and vision, "Social Transformation Through Dynamic Education", are truly justified and deeply meaningful.

**8. We see that students often choose computer related branches when pursuing B.tech but since the country is going through rapid infrastructural development where does it put the other branches on the engineering landscape?**

**Ans -** I believe this question is not entirely appropriate. The Computer Science branch is an engineering discipline, not just electronics. When discussing any program or course, it is difficult to ignore computer science. This is why so many students pursue Computer Science or IT, which is similar to CSE.

However, my friends, even in mechanical engineering, 40% of courses now include computer engineering concepts. Without computers, AI, and data analytics, progress in the field is impossible. This applies not only to UG programs but also to PG programs and management courses. Take mathematics, it is the core of computer science. But to prove mathematical theorems and analytics, tools and software are essential for validating any ideology or framework. This is why CS has gained value.

That does not mean Electronics, Mechanical, or Chemical branches have lost their value. While society prefers Computer Science due to IT jobs, other branches remain essential.

As I mentioned earlier, this generation decides its path. Even at my institution, 1,000 students enroll, with 500–600 choosing Computer Science. Still, 400 students opt for Mechanical, Civil, or Chemical Engineering, proving their continued relevance.

# ENGLISH EXCEPTION



Dreams have only one  
owner at a time. That's why  
dreamers are lonely

WILLIAM  
FAULKNER



# WILLIAM FAULKNER

William Faulkner was born in New Albany, Mississippi, and was the only South American author and novelist. As Ralph Ellison would call him "the greatest artist the South has produced," Faulkner was known for his novels and short stories. He had joined the British Royal Air Force in 1918 but did not serve in combat. He then joined the University of Mississippi and dropped out after the third semester for good.

His first story was named "A Soldier's Pay" which was written in 1925, followed by Satori in 1927 and "The sound and the Fury" in 1929, which brought him publicity and fame.

His writing style resonates with different points of view and a nonlinear timeline, which constantly lapses to the past to connect with the present. He was one of the few authors who focused on existential crisis, mental illness, and trauma for character-building purposes, which helps the reader to have a better connect with the story. His persistent use of layered prose and complex and long sentences elucidated his gothic style and symbolised decay in terms of nature, family, or storyline.



# Sky

I look at the sky with vivid colours and hues.  
 So pretty so pious, giving me many views,  
 then glance at the floating and gigantic cloud  
 Like whimsical entities, with no bound.  
 Defying the vision, I feel so subtle,  
 so silent, so blue.  
 The chaos, the chores feel so petty,  
 so out of queue.

Embracing the light, the vision,  
 the path so elegant, so bright.  
 Ready to reach Icarus's height,  
 Ready to take the first flight.  
 Then I come back with shiver and shudder,  
 It is the rush of rain and thrust of thunder.  
 All set to define the limit,  
 All set to constrain the wit.

Agenda is to seize the rise,  
 And ensure the destination dies.  
 But this time I am ready to fight,  
 And sprout towards light.  
 I shed the fear of failure away,  
 making a course, a valiant way.  
 paving a novel narrow lane,  
 Pushing the debris towards the drain.

Oh thunder! Get ready for the doom,  
 Resilience is here to bloom.  
 Oh rain! The rush is at its edge,  
 Composure is the thing; conviction is the  
 pledge.

hen there is a whoosh!  
 a movement, a flinch, a push.  
 Triumph soaring in the sky,  
 I feel at the top, where birds can't fly.

Oh sky! I'm here to cherish your charm,  
 You feel so lucid, so calm.  
 Now I can believe, I can count,  
 Cherish the serenity you mount.

The ruin of the rain and thunder is gone,  
 Now you are so poised, and prone.  
 To more colors and hues,  
 Setting different goals, different views.

# *Echoes of You*

There's this feeling I can't shake,  
 Like a shadow I can't break.  
 Chasing ghosts I can't replace,  
 Running fast, yet stuck in place.  
 I try to fix what's left of me,  
 But I'm lost in who I used to be.  
 Split my day, break it in four—  
 Three I'm numb, the last's a war.

Echoes of you, whispers in the air,  
 I look for you, but you are nowhere.  
 If you wanted me, I'd be there too,  
 Yet all I find are echoes of you.

Once we were wild, the world in our hands,  
 But now it's a dream I can't understand.  
 You were a lesson I never sought,  
 A thorn of love, in every thought.  
 Taught me things I didn't want to learn,  
 Now all that's left is bridges burned.  
 Everything's past repair,  
 All I feel now is despair.

Echoes of you, whispers in the air,  
 I look for you, but you're nowhere there.  
 If you wanted me, I'd be there too,  
 Yet all I find are echoes of you.

I feel you like a breeze, just out of reach,  
 A haunting song, a silent speech.  
 Pieces of us in every breath,  
 Caught in the dance of life and death.

Echoes of you, whispers in the air,  
 I look for you, but you're nowhere there.  
 If you wanted me, I'd be there too,  
 Yet all I find are echoes of you.

So here I stand, lost in the ache,  
 Chasing shadows I can't shake.  
 If you're out there, give me a sign,  
 For in these echoes, I'm losing my mind.

The light in the darkness  
 I fell for someone, but it was all a facade  
 A heart of gold, turned out to be a fraud  
 Now I'm left alone, with shattered trust  
 In the aftermath, it's just ashes and dust

Therapy's advice, "just get over it"  
 But the wounds are deep, refusing to submit  
 Endlessly scrolling, seeking some relief  
 Trying to mend what's beyond belief

Good things fade, regrets may dim  
 But lessons learned, they still swim  
 In the sea of memories, where I roam  
 A solitary figure, in an empty home

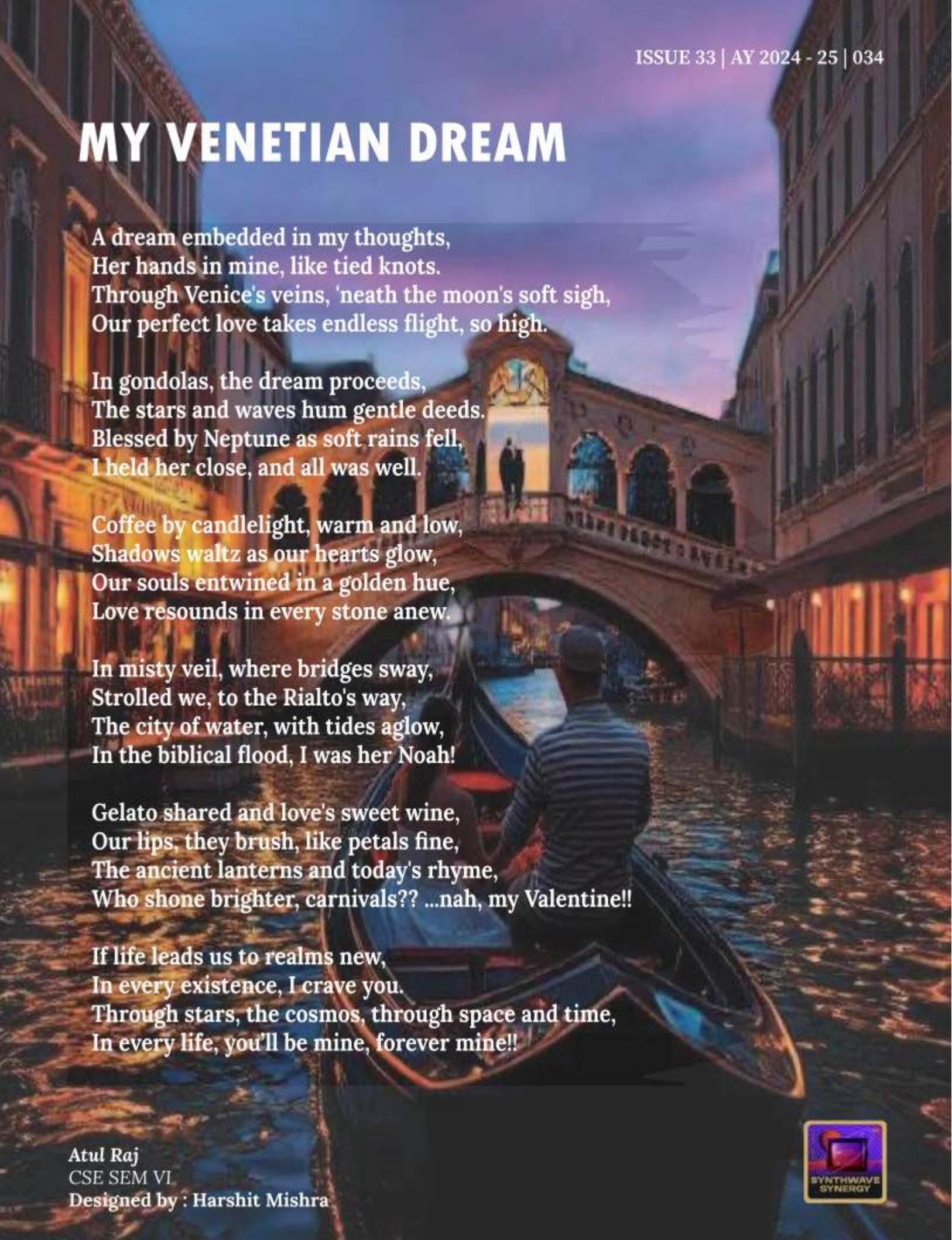
She was the one I wanted, the one I adored  
 But now I'm left broken, my heart is sore  
 Though I wasn't the one she chose to embrace  
 I'll cherish her memory, and procrastinate

Every soul carries its own curse  
 Like Medusa's gaze, or something worse  
 You turned me into a naive fool  
 But from these ashes, I'll rebuild anew

Blinded by love, I stumbled and fell  
 Into the depths of your deceitful spell  
 Now I'm left to pick up the pieces, alone  
 Regretting the chances, I should have known

Yet from this wreckage, I'll rise once more  
 Stronger, wiser, than I was before  
 For even in darkness, there's a flicker of light  
 Guiding me through this endless night.

# MY VENETIAN DREAM



A dream embedded in my thoughts,  
Her hands in mine, like tied knots.  
Through Venice's veins, 'neath the moon's soft sigh,  
Our perfect love takes endless flight, so high.

In gondolas, the dream proceeds,  
The stars and waves hum gentle deeds.  
Blessed by Neptune as soft rains fell,  
I held her close, and all was well.

Coffee by candlelight, warm and low,  
Shadows waltz as our hearts glow,  
Our souls entwined in a golden hue,  
Love resounds in every stone anew.

In misty veil, where bridges sway,  
Strolled we, to the Rialto's way,  
The city of water, with tides aglow,  
In the biblical flood, I was her Noah!

Gelato shared and love's sweet wine,  
Our lips, they brush, like petals fine,  
The ancient lanterns and today's rhyme,  
Who shone brighter, carnivals?? ...nah, my Valentine!!

If life leads us to realms new,  
In every existence, I crave you.  
Through stars, the cosmos, through space and time,  
In every life, you'll be mine, forever mine!!

# Icarus laughed as he fell

Up he soared wings wide and bright,  
wings of wax , dreams of light.  
Icarus heard the call of Helios  
as wax flowed through his locks.

Shine of the sun burned his eyes ,  
up and high away from the spies.  
Don't fly too high nor too low ,  
his father screamed down below.

But Icarus heard no words.  
He now flew above the birds.  
Once held by chains , now freed,  
Blinded by his daring need.

The charring skin upon his neck.  
The trails of wax on his back.  
He felt his flight, not his fall,  
nor did he feel death's call.

His eyes ashed , his nose bled,  
his memory flashed , his fear fled.  
The sea rose high , Poseidon's throne,  
its arms stretched, to claim its own.

Like Thetis weeped for her fated son,  
like Zeus failed to save Sarpedon,  
Daedalus stood on land forlorn,  
lamenting for what his youth had done.

Even Olympus stood in awe  
for the mortal who dared the law.  
In the waves is where he'll stay  
As a mortal who dared Gods that day.

Never regret thy fall,  
O Icarus of the fearless flight.  
For before you fell, you flew  
and in that moment ,  
the sun knew of you too.

So laugh at the goal  
You wished to achieve  
There are little who smile  
And a lot who grieve.

Show your back to the world  
& to those who don't deserve  
Smile even when u fall  
For in rising you stand tall.

You are ICARUS of your times.  
Fear not for your flight  
Trust your wings let them propel.  
For ICARUS laughed as he fell.

**Amey Ghatol**

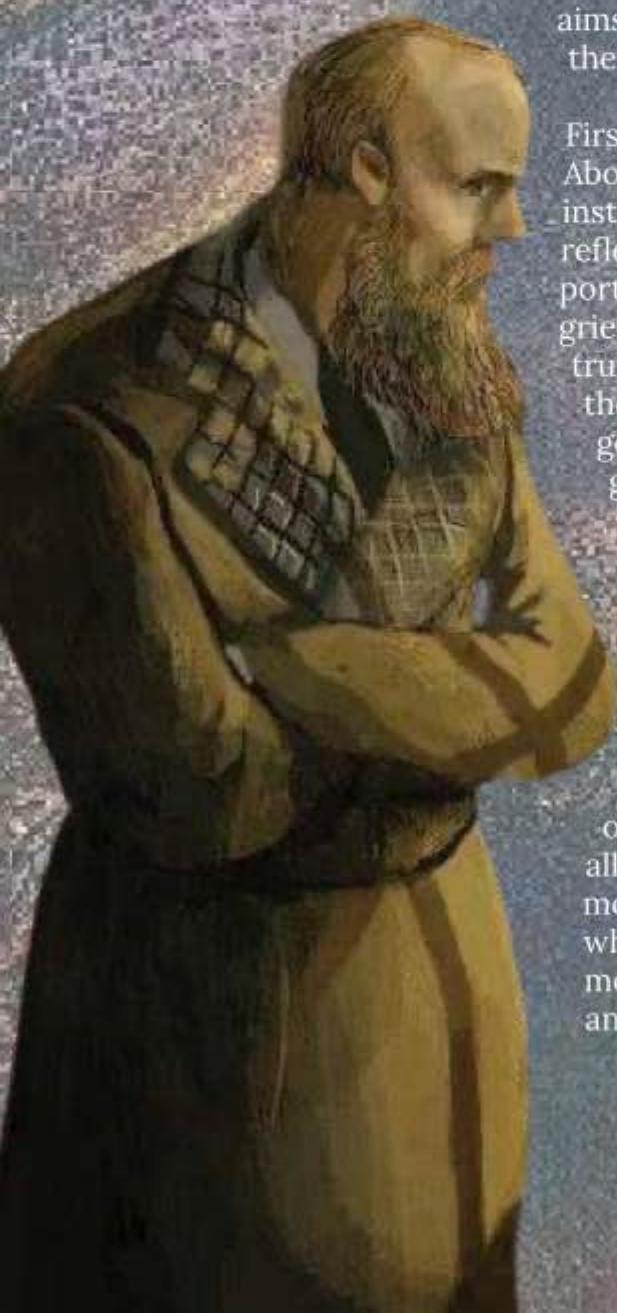
CSE IV SEM

Designed by: Retik Ranjan Srivastava



## Kafka to Dostoevsky : Why is Gen-Z all at once obsessed with traditional authors ?

Generation Z (1997-2012) is the cutting-edge youth; their contemporaries spend hours watching short-form videos with Perfect lip-syncing and banter, their loyalties going all out in Dissecting Christopher Nolan's crazy plots while mindlessly Staring at a fifteen-second story upload on Instagram. They Can Google every one of those minute details to justify their Logic, ironically, the same logic that could not shed light on Snapchat streaks—and they have gone so far as to create an Entire dictionary of terms: situationships, ghosting, orbiting, Plus others—much of which I even struggle to keep up with! What is really the inspiration for Generation Z? Well, it's a Paradox. On one hand, severely acclaimed works like Kristin Hannah's "The Women", a 2024 bestseller praised for its Female resilience—rub shoulders with authors like Colleen Hoover. While quite famous, books written by Colleen Hoover have been criticized for the ability to romanticize Abusive relationships and the oversimplification of trauma. The article aims to take a closer look at some of those literary Giants and their enduring craftsmanship that has the internet Buzzing.



First comes Fyodor Dostoevsky. There is something uncanny About this Russian master, for he neither preaches good nor Bad; instead, his answers let you introspect within, inviting Deep reflections. In "White Nights," he deals with existential Issues, portraying the universal desire for connection. Alongside the grief of isolation and how dreams comfort yet Bore us far from truth. Meanwhile, "Crime and Punishment" Comes to terms with the delusion of moral justification behind Crime for the greater good, an imaginary justification whose Consequences of inner guilt were compounded by deep human Suffering. Similarly, "The Brothers Karamazov" speaks to our Very souls. This complicated piece has attained a level of Depth wherein it can discuss very sensitive matters of faith, Belief, and reason. Some of the timeless dilemmas in this piece Revolve around good and evil, suffering and redemption, and The everlasting tension between familial duties and individual Desires. While confronting these evergreen themes, Dostoevsky brings a deep investigation into the state of affairs While being attractive and a challenge for readers of all Generations. The investigation of alienation, meaning, and moral choices of Dostoevsky seems apt for younger individuals who Contemplate their own identities and choices in this modern-day Mysterious world, marked by fast commerce and anxieties In every walk of life.



Its undressed explanation of the human Mind, in all respects, delivers a hard-hitting reality check to The sleek-faced social media machinery. To truly understand the literary taste of Gen Z, few avenues are more illuminating than Albert Camus. His work explores the Absurdity of human identity and the struggle between our Desire for meaning and the world's apparent lack of it. *The Stranger* presents a main character who is emotionally distant and refuses to follow society's expectations. But then Camus does not leave the existentially tortured in despair. Rather, his Tale *The Plague* points to the fact that even within this Absurdity, acts of compassion and moral choices give life meaning—it is a message that speaks directly to a generation in deep doubt. *The Fall* completes this picture with a reflection on the importance of individual freedom and rebellion. Camus's work is never about easy solutions but rather about a journey of self-discovery. While discussing his influences, Charles Bukowski's works, including *Women*, remain unbelievably relatable. Written years ago, his essay still narrates about disillusionment, anxiety, and the search for identity that resonate in the new rapidly changing world; all these are what the teens have to deal with today. His raw, rebellious, and unfiltered voice cuts clean through the hallowed sentences of mainstream literature. Even the relatively obscure *post office* certainly presents a dark absurd humour that somehow feels remarkably modern, as if he looked ahead to today's era when dark humour is so widely combined with sarcasm and bitter sarcasm online. It is one insane feat assuredly, some fifty years down the line. And one of the most well-known of the classic authors.



While he wrote more than a dozen works, it would be unfair not to mention "The Metamorphosis," a story that has inspired countless writers to explore themes of alienation, identity struggles, and uniquely absurd humor. Also, "The Trial" great shows political corruption and social injustices that hit home for many minds disturbed by these situations. But even more interesting, for the youth, is the space that Kafka occupies—all those anxieties about societal pressures, bureaucratic systems, and the meaning in these works, anxieties that seem strikingly apt to a generation living with such troubles.

As mentioned previously, literature varies with age groups according to various readers; nonetheless, we are going to mention some of the most popular fictional writers on the net, Haruki Murakami for Norwegian Wood and Kafka on Shore, George Orwell for the work entitled Animal Farm, Sylvia Plath for her Bell Jar, which seems to address psychological disorders and self-evolution, and The rebellious philosophy of Nietzsche, who probes questions about Übermensch. What binds these authors together is their bold and daring defiance of those norms and systems of power. But even more than this, it is that same anxiety characterizing contemporary life that makes their writing so comforting to Gen Z. Growing up in a world of rapid change, fragmentation, and global crisis, what young people find in those philosophies is a weighty lens through which they see their own struggles with authenticity, individualism, and the fight for justice in the digital age. These writers supply not simple answers but a heartfelt communion.

## GROWING UP

I have grown up,  
Away from Dollhouse,  
Ditching barbie,  
Hoping for Margot Robbie,  
To come sort life for me.

I feel like Dory,  
In this sea of people,  
I just keep swimming,  
Who am I forgetting,  
What am I finding?

Here in the cupboard,  
rest my beloved companions,  
I face the harsh reality,  
unlike Buzz and Woody,  
My toys, having no story.  
The dust settles,  
On my kitchen set,  
I made meals out of thin air,  
Kitchen remains, but I don't  
dare,  
Its monstrous size, a nightmare.

I let Walt Disney down,  
As I scroll through my day,  
the internet I now browse,  
bit old for the Clubhouse,  
I don't meet Mickey Mouse.

I have my Books,  
Once simple tales to guide,  
about some lion and boar,  
are now fantasy's complex lore,  
for lies are what adults adore.

Crayons tossed away,  
Pages now lined and worn,  
Pen so blue,  
The ink leaves no hue,  
A story lost, but still true.

# An Eternal Abode

The world blurs as I step in,  
Warmth embracing my darkest shadows.

The masks have all grown thin,  
It's just us and the silence of our echoes.

In the corner I see,  
A box of memories that will never perish.

Not all very glee,  
But even the sad ones I cherish.

From the stained glass window,  
Is the view where my world stands still.  
Filled with the glimmering glow,  
Of the promises that our life together will.

It was a mere land before our symphonies,  
Bleakness engraved in its roots.  
Now it's embraced with the melodies,  
Of the voices of our truths.

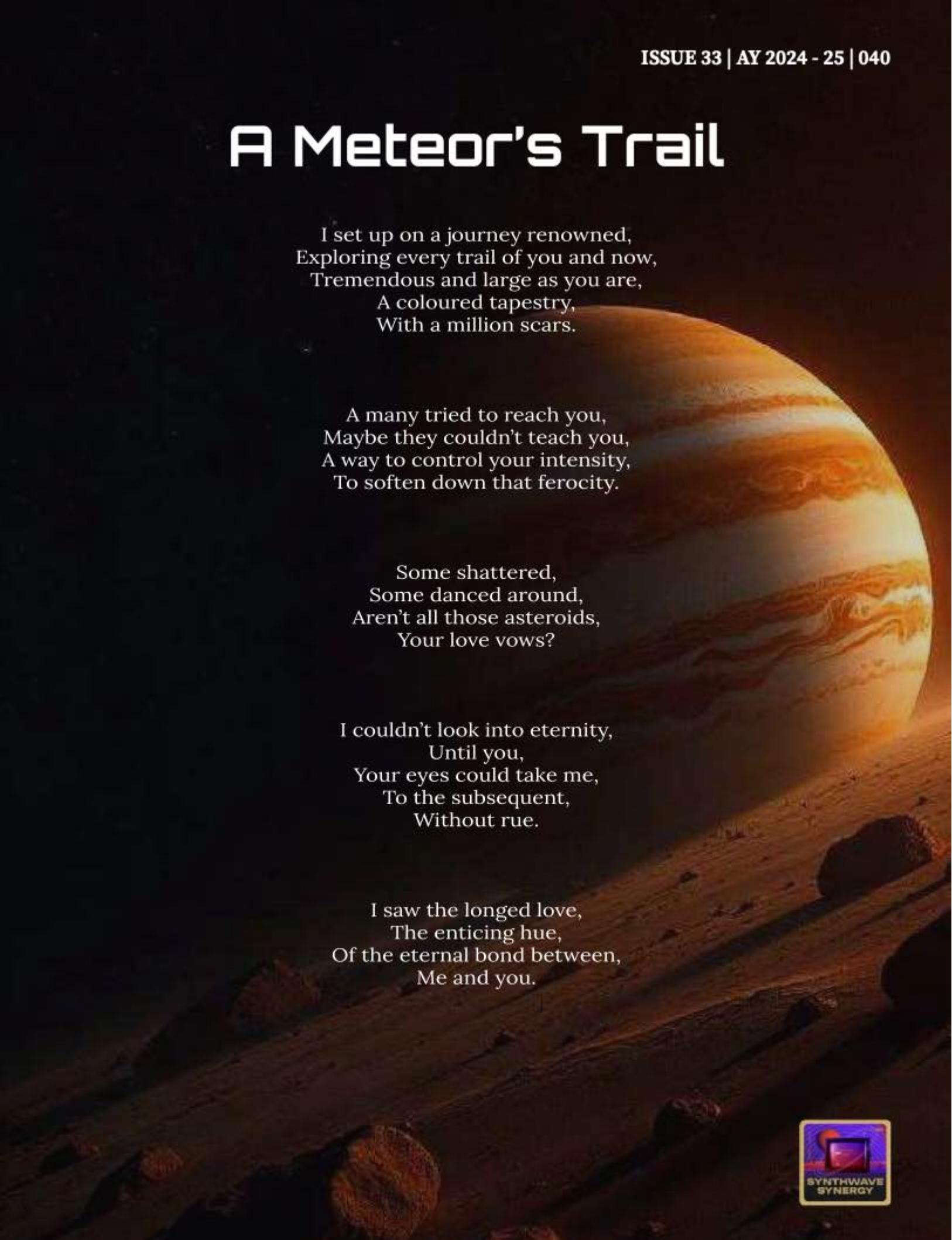
You are the morrow of my dreams,  
The one they claimed about before.

When my world will be bright,  
Cause it will have you to yearn for.

After spending an eternity here,  
I can say that whispers are all true.

It's a home I have built dear,  
With the love I bear for you.

# A Meteor's Trail



I set up on a journey renowned,  
Exploring every trail of you and now,  
Tremendous and large as you are,  
A coloured tapestry,  
With a million scars.

A many tried to reach you,  
Maybe they couldn't teach you,  
A way to control your intensity,  
To soften down that ferocity.

Some shattered,  
Some danced around,  
Aren't all those asteroids,  
Your love vows?

I couldn't look into eternity,  
Until you,  
Your eyes could take me,  
To the subsequent,  
Without rue.

I saw the longed love,  
The enticing hue,  
Of the eternal bond between,  
Me and you.

What more I saw was terror intended,  
Pretty sure at the end,  
I'd be grief stricken.  
To the Jupiter was  
A treacherous path,  
With celestial bodies dancing around,  
And the pull from far.

It only made me wonder  
About my assurity.  
What if I end up losing,  
All my serenity?  
Making up my mind,  
I yet move ahead.  
Knowing everything has a cost intend.

Nothing makes up,  
For the way I shatter.  
I remain yet another asteroid,  
Who was off from the universe.

Just to seek your sight,  
Submitting to your pull,  
Breaking in the belt,  
I now truly understand,  
What makes the asteroid celestial?

The half journey and  
Determined longing,  
Ends me up in the room enclosed,  
This is the cost intended,  
For my longing to comprehend.

# Roofied in Rome

It was a scorching 1965 summer in the historic city of Rome. Nestled among the city's meandering corridors, Cornelius, a tall, elegant man with focused, feline eyes and a neatly trimmed beard, slumped over a small table at a quiet bar. Behind his closed eyes, however, he was gliding around the ancient city with surprising lightness. With every turn, he defied gravity. However, his respite was short-lived. His environment turned into a dark void, and he felt himself being pulled into it.

"Wake up! Wake up, Signore!" cried Italian voices. It was the police. Cornelius felt disoriented, but his vision gradually cleared. As if an involuntary reflex kicked in, he felt for his pocket, hoping to feel the weight of his wallet. However, he felt nothing but empty fabric. His wallet was gone! Sensing his trepidation, the officers gestured at him. "Can we help you, Signore?" they asked. "My wallet. It's gone!" cried Cornelius. "Come with us to the police station to file a report," instructed the officer. He boarded the car, and it journeyed through the sluggish streets of Rome. His mind, however, was in a fracas. He pondered the events of the previous night. The woman who sat opposite to him. Her feline eyes weren't like his own, the unpalatable wine and the somnolence. They arrived at the police station. It was beige and hot. Cornelius was directed to a desk, where he waited for a few minutes. "Ciao, Signore Waterson. I am Peter Ricci, and I shall be your translator today. Officer Rossi here will write your report," said an American man of a slender disposition, not unlike Cornelius. "What do you recall of last night's events?" he questioned. "I was at a bar alone. A woman approached me, requesting if she could occupy the opposite seat on account of the overcrowded bar. I obliged." "Describe her face." "She was pale with black hair. Her eyes were singular in appearance. She had on a dark coat, Possibly maroon or violet." "You were asleep when we found you, were you not?" "Yes, it seems that I was drugged. I reached for my wallet, and it was gone." "Such cases aren't uncommon, sir. We can't guarantee your recovery." "I understand, sir," replied Cornelius with dismay. Soon he was out of the police station and began walking towards his hotel. At every step, he glanced behind him, for his countenance was awash with dread. He soon reached the hotel. Its cold air and leather carpets scented the lobby wonderfully. Cornelius felt a sense of security as he took it all in. As he was enjoying the moment, a voice cried out at him. "Signore, can I help you?" It was a concierge of a portly physique. His English was broken yet effortful. "I'd like the keys to my room, please. It is 804," replied Cornelius professionally, forgetting his predicament of the morning. "Certainly, Signore."

With the keys trembling, Cornelius ascended to his room and locked the door decisively. The knot of anxiety in his chest had not loosened, and with every breath, he felt its burden. He leaned against the door, whispering broodingly, "I better ensure I don't lose anything else," and opened his desk drawer. "Good, good, everything is there," resounded the soliloquy. But as he peered inside, his breath came to a pause. "My wallet?" His voice cackled with disbelief. "How is this possible? It was stolen!" With exalted optimism, Cornelius opened the wallet, eager to confirm his belongings were intact. Instead of familiar contents, a sudden, sharp sensation assailed him like a whip. "What on Earth!" cried as asphyxiation gripped him. It scorched as though hundreds of needles were piercing his skin. His vision was obscured as his nostrils and throat filled with an acrid, searing gas. What's happening to me? he pondered, stumbling back onto the bed. Darkness befell him as the last conscious thought echoed through his brain, "Why am I being drugged again?"

# *Forgotten Dreams*

Dreams rarely disappear all at once. Instead, they fade slowly as life moves forward. The excitement they once brought is gradually replaced by responsibilities, leaving the dream to quietly blend into the background.

Over time, it becomes something we think about less and less. This doesn't happen because we stop caring. More often, it's life's realities that make pursuing a dream harder. Time, resources, or confidence may not align with our hopes.

What once seemed achievable can start to feel distant, and as the years pass, the dream begins to feel like it belonged to another version of us. When these dreams resurface in our minds, they bring a mix of emotions—nostalgia for what once was and acceptance of what is.

The window of opportunity that felt so open before may now feel closed. And while we're often told it's never too late, sometimes, the truth is that it might be. Not all dreams are meant to come true, but that doesn't mean they were pointless.

They show us what once mattered to us, offering insights into our passions and values. Even if the dream fades, the lessons and memories stay with us. The good news is, it's never too late to dream again. Life changes, and so do we.

Perhaps the dream we need now isn't the one we had before but a new one, better values. Even if the dream fades, the lessons and memories stay with us, suited to the person we've become. Dreams evolve, and so can we.

# This is me letting you go

This is me accepting that we are leaving , we are detaching, we are separating.  
And it's true , not an acting.

It's my acknowledgement that there's no further argument to make,  
no angle left to take,  
no plea or bargain I could wager that could get us to change our mind and stay.

Now we both have a different way,  
This is my subtle resignation to our downfall.

I know we are having an album's shelf so tall,  
But ,

This is me knowing that we don't get a do-over- not on the last night I spent asleepbeside you  
or the last time I told you I loved you or the first moment I felt us start to drift apart.

Now it's an end , not a start,

This is my acceptance that I am going to miss you. That there are going to be nights  
where I curl up in bed with a novel and a warm mug of coffee and your absence on  
the left side zof the bed is a chasm that swells and envelopes me.

That for a long time I am going to see you everywhere- in second floor windows, in the faces of strangers,  
in the photos and memories that will tear at my heartstrings for months after you are gone.

This is the realisation that missing you is going to be second heartbeat in my body.  
This is me knowing that life goes on.

Knowing that someday I will not think of love as a feeling that's exclusive to you,  
That eventually I will meet someone new- someone who loves the foods you  
hate and laughs at things you don't find funny and appreciates the parts of me that  
you once left undiscovered,

That some day our memories will get hovered.

That some days, in the early morning hours, I am going to wake up beside her and forget , just for an instant that it is not your body tangled in mine,  
In my selfies, it will be not your smile which is going to shine.

This is me knowing that those moments will defeat me,  
I know till my last breath, in my dreams you will meet me.

This is my conceptualization; That someday I am going to get married and that you will not be there. That the ring that will slip on my finger will be not picked up by you, And the people sitting in front row will be not your family members,  
I guess some day , your hobbies , likes, dislikes - these things I will not remember.

This is me knowing that we are going to grow old,  
courageous and bold.

That your life is going to be huge and important and full of love but that its all going to transpire without me.

I will aspire without you , you will aspire without me.

That I am not going to be there to toast to your 50th birthday, or crawl beside you on the nights when the world's weight is very heavy to bear.

I know our heart will be near for years,  
That someday you will hold your first born child I will be not kissing your forehead.

Now my brain is feeling, I guess my heart is dead.

This is me knowing that I have to let you go.

So this is me unclasping the fingers,  
This is my parting, my reluctance, my heartache and my final gift to you.  
This is me letting you go !!

Will see you in last flashbacks of my life

## FRIENDS FROM YORE

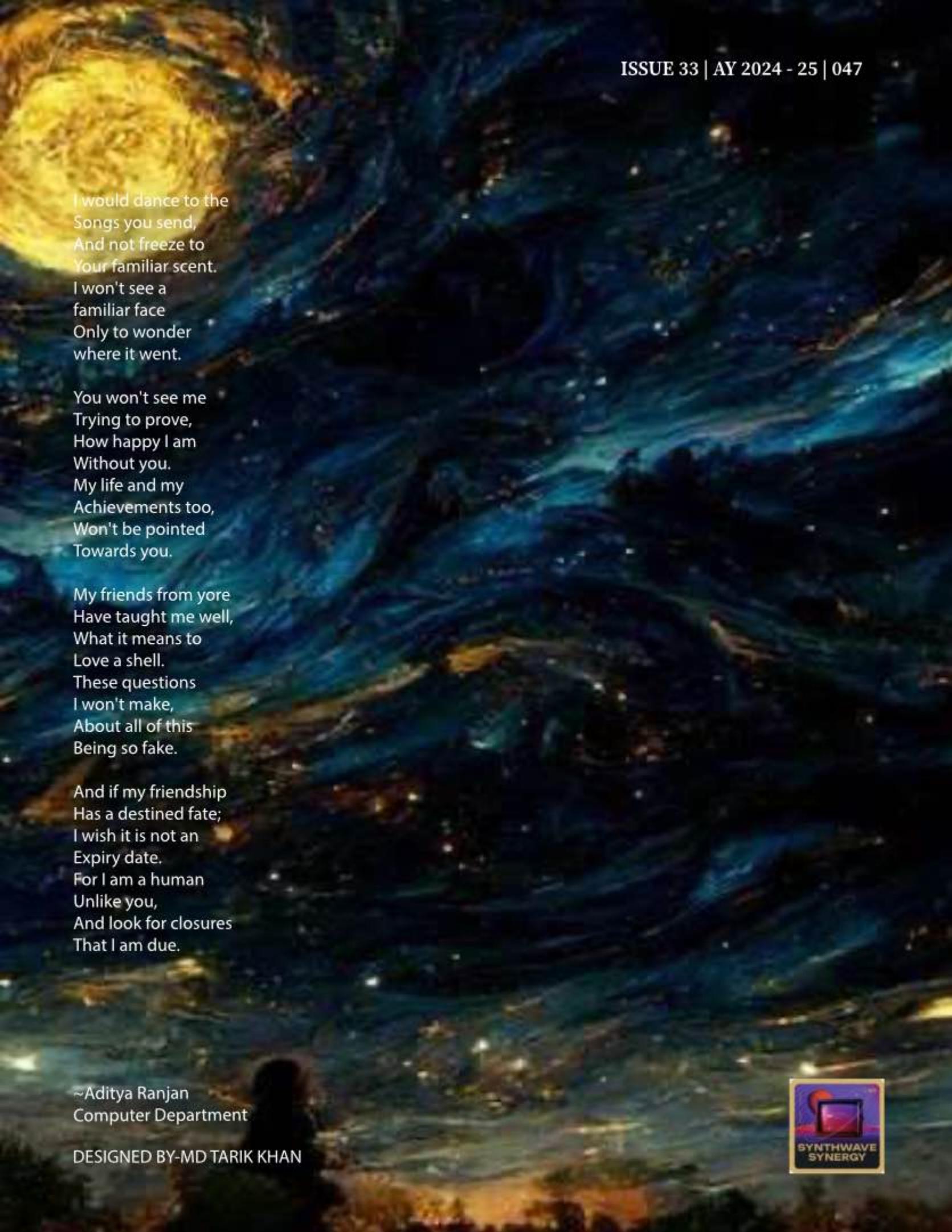
My friends from yore,  
Have gone so far.  
Behind the face of-  
Old time's bar!  
Meets with me where,  
My memory is fresh  
Of schooly days,  
And my innocent rush.

My friends from now,  
Will also go,  
To a farther place  
That I don't know.  
I will leave a few of them!  
And some of them  
Will leave me too.

Maybe this time now  
It won't be bad  
I'll be ready,  
And won't get mad.  
A lot of them that  
I will leave won't  
Even give this  
Piece a read.

But maybe; somewhere  
Sometime, you and I  
Are still glass and wine.  
You wish me birthdays  
And I wish you too,  
We write paras for  
Each other like we do.





I would dance to the  
Songs you send,  
And not freeze to  
Your familiar scent.

I won't see a  
familiar face  
Only to wonder  
where it went.

You won't see me  
Trying to prove,  
How happy I am  
Without you.  
My life and my  
Achievements too,  
Won't be pointed  
Towards you.

My friends from yore  
Have taught me well,  
What it means to  
Love a shell.  
These questions  
I won't make,  
About all of this  
Being so fake.

And if my friendship  
Has a destined fate;  
I wish it is not an  
Expiry date.  
For I am a human  
Unlike you,  
And look for closures  
That I am due.

~Aditya Ranjan  
Computer Department

DESIGNED BY-MD TARIK KHAN



# The Colours of Destiny

Once there was a boy who dreamt in the hues of olive green, a dream passed down through generations, a legacy he was meant to carry forward. He wasn't just another aspirant, he was the son of discipline, the bearer of traditions. Yet, fate had other plans. The stars, which once aligned to guide him into the Armed Forces, shifted, which pushed him towards an Engineering College that failed to match his aspirations.

Unlike others who celebrated their admissions, he found himself suffocated, burdened with questions of worth and purpose. He had worked tirelessly in his higher secondary years, yet he ended up here. The echoes of his disappointment found solace in the voice of his sister, the one who saw hope when he saw darkness. "One last chance," she said. He clung to those words, pouring himself into NDA preparations, forsaking everything college life had to offer. While others basked in the thrill of new-found freedom, he spent his days buried in books, his nights haunted by equations and history.

But when the results arrived, they brought no triumph. The world didn't pause to acknowledge his effort, it simply moved on, leaving him stranded. That failure was a storm, an unrelenting force that shook him to his core. He felt the weight of unfulfilled expectations, dreams slipping through his fingers like grains of sand.

Weeks passed in a haze, his existence reduced to a cycle of waking up and questioning why. Yet, in the abyss, he found a hand pulling him out—his roommate, the silent witness to his pain, the companion who saw his struggle and stayed.

As the second year unfolded, he stumbled into a college club, not out of confidence, but necessity—to feel something, to be something beyond his failures. Doubt clung to him, whispering that he wasn't good enough, that rejection was inevitable.

But then came a mentor, a senior who saw more in him than he saw in himself. A guiding force who not only believed in him but also sculpted his hesitations into strengths. From being a hesitant recruit to becoming the head of that very club, he found redemption in purpose.

And then, there was her.

She wasn't the most beautiful girl in the world, but she was different. And sometimes, different is enough. He met her during his time as a coordinator, a fleeting presence that lingered longer than expected. She was the kind of different that made the mundane magical.

Maybe it was fate, or maybe it was coincidence, but on the second Bhartiyam, they unknowingly matched their clothes with an unspoken connection. A group photo was clicked from her phone, an iPhone, no less. Later, she sent him a cropped version, just the two of them. That night, for the first time in a long time, he slept in peace.

He sought counsel from those who mattered, and every voice echoed the same advice: "Just tell her."

And so, he decided. The night before his third Bhartiyam, he rehearsed the words, imagined the possibilities, prepared for the worst.

Then came the moment.

She stood before him in a white saree adorned with black flowers, a vision of grace and warmth. Her smile had the power to make the world a better place, even if just for a moment. He called her name. She turned. Their eyes met. And then, before he could utter a word, she placed her arm over his shoulders.

His breath hitched. His body betrayed him. The world is titled darkness.

He jolted awake.

His room. His bed. His reality.

The confession, the touch, the moment it had all been a dream.

But maybe, just maybe, dreams were destiny's way of nudging him towards courage. And this time, he wasn't going to let it slip away.

**Mayank Singh Sengar**

E&TC, Sem VI

**Designed By : Ashish Raj**



# CHITRA

"Jaaiye Jaaiye!", I yelled, trying to break out of his hold. His once attractive body felt like the arms of a molester. I felt disgusted; like burying my body in a 10-foot-deep pit. 'How dare he!'

I tried pushing him away, not because I didn't like him embracing me, but because I didn't want him to. I wasn't raised with such weak SANSKAAR. My mother had a hard time raising me well. I lived with my husband and served him in exchange for every grain of rice on my plate. I was a product, now sold to a wrong customer. Then I met his gaze, Bhola; his stature seething with rage so hard, he saw red. The reason. Me, of course. He silently approached me, easily dismissing Edward, and slapped me with everything he had, while dragging me out of the house with a harsh grip on my braid. The rocks in the path stabbed my skin and left a bloody trail on the floor. Looking back, I wonder if I ever truly lived, or was I simply waiting for something to break me? For years, I felt like I was suspended in a life that belonged to someone else—a 45-year-old man, enslaved by a broken system ruled by white men, a world that couldn't see me as anything more than a shadow.

It began on the day I married Bhola. I was barely twelve when the arrangement was made. My father, ever so pragmatic, handed me over to Bhola's family like one might offer a cow to a neighbor—nothing more than an exchange of goods. He was old, rich in wealth but lacked warmth. The first time he touched me, his hands were cold—in a way that sank deeper than the flesh, into the very marrow of my bones. I don't blame him. The very tradition of Zamindari is patriarchy. Sorry, misogyny. Not just the ruler of land but also the ruler of every element except men. But it was then—at the edges of my despair—when he arrived.

Lieutenant Edward Sinclair, The British officer. The foreigner wore his uniform like armor, though I could see through the armor. Beneath it, he was a man. I couldn't pinpoint the moment he first caught my eye but I knew that his presence couldn't be ignored. He would come to our house, speak in the most formal of tones about taxes and trade, and leave without a glance at me. But everytime he crossed my path, it was as though the air around me changed. He didn't see me the way others did.

No. He saw me—noticed me. In those moments, I wondered if there could be more to life than this cage. Perhaps I could be something more than a wife to a cruel man. Our eyes met subtly, while I served him water. The moisture in my swollen eyes watered his dry expressions. His voice soothed my sobs inside. But then, something shifted. Something unspoken passed between us. I never asked for it, but couldn't refuse when it happened. One evening, Bhola was out with his friends. I was alone, in a house that felt more like a tomb, and then he came to me. His steps thumping against the floors of our house, like the beats of Dhaak during Durga Puja. His cologne reminded me of the blooming Harshringar, in autumn beside Hooghly shores. I didn't know English, yet I heard what his eyes said. To him, I wasn't just a woman bound by marriage, by society's expectations, by the weight of the system. I felt seen. Wanted.

In that moment, he gave me something I never knew—something more than just pity. I'd felt visible to someone, I could be more than a prisoner in my own life. There was something unclear in his gaze. I wasn't afraid of a man in my house who wasn't my husband. What would people say if they saw? Then I heard the horn of my husband's car. I lost my self-control and shooed him, asking him to leave through the back door. Instead, he hugged me tight, in the haste to push him away, I punched his chest, yet he didn't let go. He left me with a sense of betrayal; I betrayed my marriage, my husband, my Sanskar, MYSELF. Bhola's anger burned hotter than the sun. When he saw us standing inside like that, his rage unleashed. I couldn't even give any excuses for my mistake.



Mistake. Yes, my mistake. Because a guy tried to force himself on me.

Edward then ran from the back door. Did he leave? Did he escape, intentionally messing me up like this? I stood in the streets, dirt under my feet, my mind a whirl of thoughts. I had no home. I had no protection. But I did have something else—something that I didn't have before: a voice of my own.

I went to the government office. The British officers, who were never a presence in my life, now held the power. I entered the office with my head held high. I still felt his rough palms cupping my face, the haunted touch left me starving. "I have something to say," I said, my voice steady despite the storm inside me. They looked at me, confusedly, as if they'd never seen a woman speak. But I didn't care.

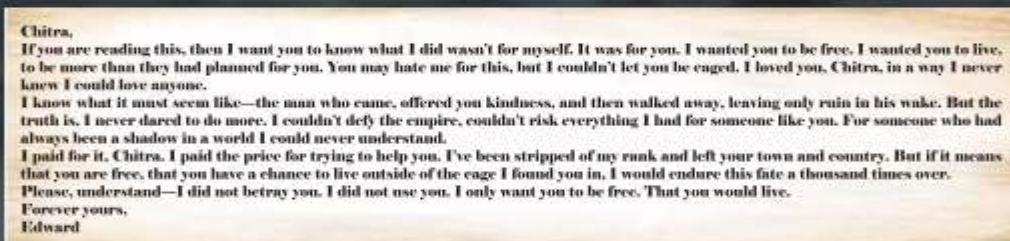
"Eduard Saar," I struggled, my voice trembling yet stern. "He d-dishonored me. Used me, and casted me aside. You're all the same—no better than the men who rule this land cruelly."

Was I simply some scorned woman? Or was I telling the truth? It didn't matter. I wasn't just telling a story—I was changing the narrative. Bhola was loyal to the system; they would ruin Edward.

In the days that followed, Edward was stripped of his rank. He left for England. I should have felt victorious; I had him stripped of his honor and had him pay for his deed. Yet I felt unsatisfied, something keen to guilt gnawed at me. The anger faded, and instead, there was an emptiness, a question. Did I hate him? Or had I merely wanted him to pay for what he had made me feel? For what we had shared?

I didn't know.

Weeks passed. Days blurring into each other, and my quiet life became strange, as though I lived in a fog. And then one morning, a letter arrived. Opening the letter, I couldn't read anything. I just knew that Edward was the one who sent it, the name looked similar to his badge.



I couldn't bring myself to stop crying. I ruined him when all he wanted was for me to be free, was it the thought of being abandoned or was it so that I couldn't bear the thought of him leaving?

And then, months later, something happened. One of the officers sent me to Kolkata to study, at a British school that offered me an opportunity. In return, I was to serve the British Empire. The way he did. The officers gave me this chance—not out of kindness, but to silence me, to keep me in their control. Yet, in Kolkata, surrounded by foreign books and thoughts, I found something that had always been inside me—the ability to control my fate.

Did I still hate him? Why didn't he stay with me if he ever truly loved me? Was I still the woman who credited a white man for what I have today? Do I deserve some credit too?

When I stood on the balcony of the school, looking over the city of Kolkata, Edward's letter seemed clearer. I could read it now—not just with my mind, but with my heart. I could speak his language, too. English. Maybe if I could read his letter then, I would've forgiven him. Maybe I wouldn't have done that.

He gave me a chance to live, to be free, to be more than what I was. And for that, I could never hate him. Not just me, but everyone is a Chitra—an image, a reflection, shaped by the circumstances around them. And now, I am the Chitra of love, bravery, gratitude, and strength.

# I AM THE MEDIOCRITY YOU TALK ABOUT

I am the mediocrity you talk about.  
I am the pain in your chest when your life is at rest.  
I am the grief in your heart when your world falls apart.

I am but am not.  
I say, but I stay—  
As still as your voice,  
As chaotic as your choice,  
As pitiful as those yearns—  
Those that tell us: You are made for none.

You are a mess.  
You are not to impress  
Your own damned self,  
'Cause, well, your insecurities rest there, right?  
That tells me you are mediocre at best.

You fight me.  
You disobey me.  
You fail to accept.  
Yet here you are,  
Writing poetry to satisfy the need  
To be worlds apart  
From the people that exist—  
Whom I know very well,  
Too, are mediocre at this art.

# Starry Scars

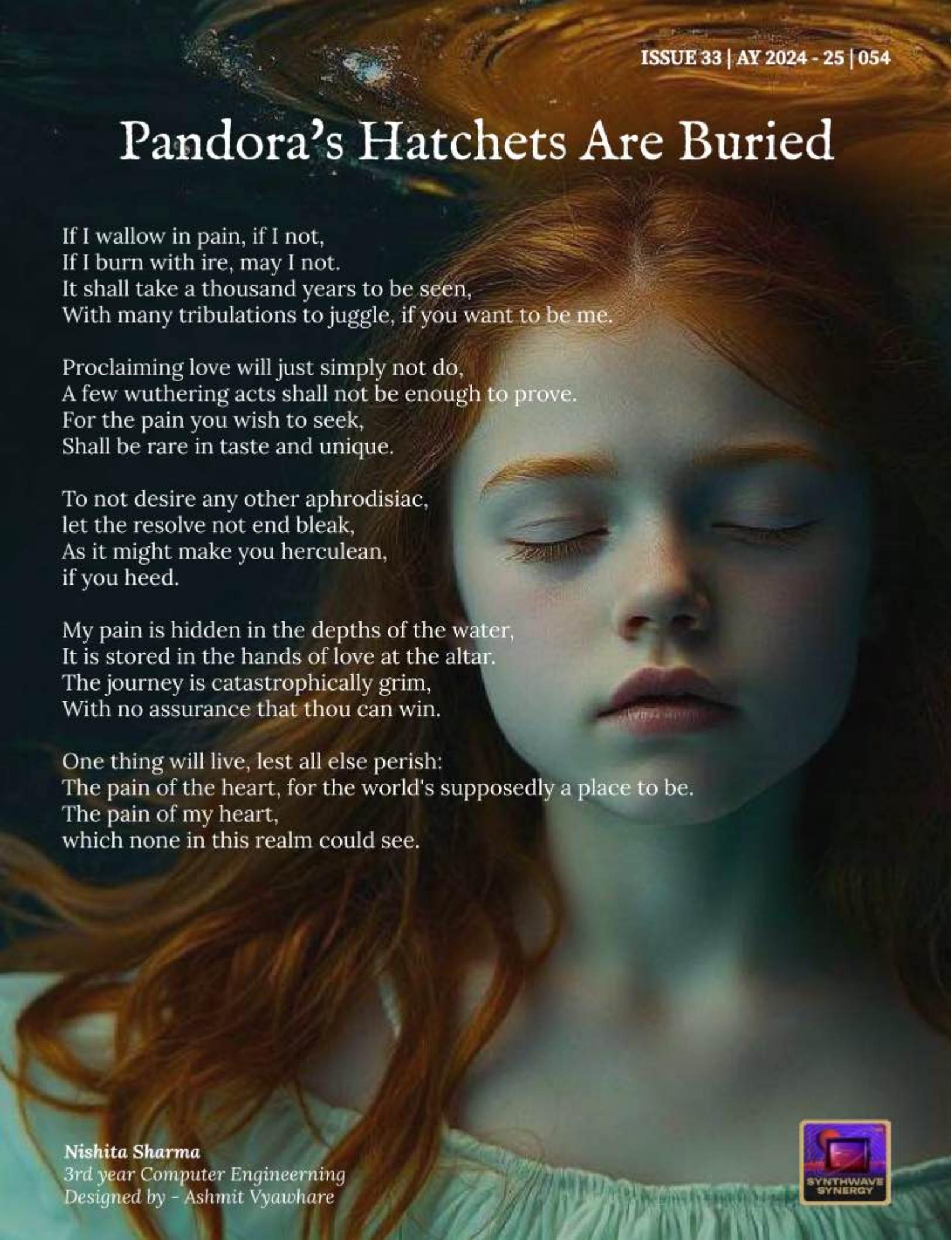
Does anyone know your scars,  
Those behind your beloved bars.  
Marinating in waged silence,  
Surpassing the pain license.

From carefully chosen words,  
To tattooed cuts--  
Your body aches in sores,  
Always set to shut doors.

Troubled twists breaks your bone.  
Your soul has so much to own.  
Be your charm, hold your cards,  
And take them down on a bold bard.

Let these scars be stars in your night sky.  
Navigating you forward, nothing to defy.  
Stay firm, enlighten your might,  
And let your scars shine tonight.

# Pandora's Hatchets Are Buried



If I wallow in pain, if I not,  
If I burn with ire, may I not.  
It shall take a thousand years to be seen,  
With many tribulations to juggle, if you want to be me.

Proclaiming love will just simply not do,  
A few wuthering acts shall not be enough to prove.  
For the pain you wish to seek,  
Shall be rare in taste and unique.

To not desire any other aphrodisiac,  
let the resolve not end bleak,  
As it might make you herculean,  
if you heed.

My pain is hidden in the depths of the water,  
It is stored in the hands of love at the altar.  
The journey is catastrophically grim,  
With no assurance that thou can win.

One thing will live, lest all else perish:  
The pain of the heart, for the world's supposedly a place to be.  
The pain of my heart,  
which none in this realm could see.

# I am a reader

I am a reader, I navigate dreams unknown,  
Through the silent pages, where tales are gently sown.  
In the dance of words, my heart and mind entwine,  
Yes, I am a reader, crafting worlds divine

Yes, I am a reader, a dreamer in my own right,  
Within each romance book, a spectrum of delight.  
Among ink-stained gardens, passion's petals grace,  
I move with characters, within their love's embrace.

Yes, I am a reader, where pages flutter free,  
In moonlit realms, love whispers to the sea.  
Heroes and heroines, constellations in the sky,  
Yes, I am a reader, beneath love's spell, I lie.

Yes, I am a reader, where ballrooms long for more,  
In the dance of words, emotions freely soar.  
Silken prose envelops me, a tender shroud,  
Yes, I am a reader, with love's enchantment vowed.

Yes, I am a reader, sailing ships of fantasy,  
Across seas of desire, fueled by artistry.  
In the tapestry of tales, where destinies align,  
Yes, I am a reader, in a universe so fine.

Yes, I am a reader, lingering in this place,  
Where love's echoes leave imprints; a sweet embrace.  
Within endless art, each story finds its start,  
Yes, I am a reader, a creator of worlds from the heart.

# Club World Cup 2025: A Success or a Mess

The Brazilian side Fluminense were outscored by 4 goals in the Club World Cup 2023 and it wasn't a surprise, as the winners Manchester City were in unwavering form in the season. After two years, it is time for the tournament to be held in the U.S.A. in the months of June and July, which means more club football, exciting ties, heritage rivalry and clutching performances. Although this tournament is also being stated as the trigger of cumulative fatigue, psychological burnout, fixture congestion and injury susceptibility by various football pundits and reporters.

The FIFA World Cup is a tournament in which the prominent football clubs of different countries and continents compete against each other in order to win the series. Having a vast history, the knockout tournaments were first hosted in Japan in 2005 where the Brazilian side São Paulo emerged as winners. Apart from the host nation's football club, six other victorious clubs from respective continents participated. The tournament was of short duration and was seen as a pre-season competition.

Two days before Argentina won the series on 18th December 2022, the FIFA president Gianni Infantino called a press conference to announce the new format of FIFA Club World, which will be implemented from 2025. Gianni Infantino informed the media that the new format was scheduled to commence from 2021 with 24 teams. However, due to COVID-19, the tournament is expected to kick off in 2025 with 32 teams similar to the FIFA World Cup format replacing the classic 7 club format. Hence, the top 32 football clubs that emerged victorious from the span of 2021 to 2024 have been included for the FIFA World Cup 2025.

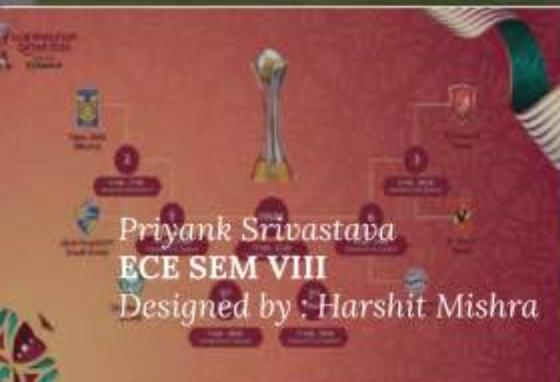


Picture this: It's 2020. You are a footballer aged about 22 years, playing around 40 to 50 professional matches in a single year with a mere break of 66 to 77 days. Fast forward to 2025, with the newly introduced format of the tournament. Now, you, being aged 26-27, have to play around 60-70 professional matches. The recovery period has also been reduced to around one month, and being a crucial player for the club and country, your presence is necessary. Even if you are being paid much more than before, your body will still require more time for recovery for the next game.

Witnessing the best teams compete for the title of FIFA Club World Cup 2025 will eventually be an astounding experience for the fans and the star players. However, for the players, the consequences of these games could be prolonged exhaustion, performance regression, and other issues which could be faced by the players due to excessive matches and insufficient recovery period. The organization of FIFA is being accused of corruption for such unusual decisions such as the Qatar FIFA World Cup and the 2034 Saudi Arabia FIFA World Cup but there is no justification for their decisions.

The outcome for the Latest format of the Club World Cup is unpredictable, and the impact on the players, fans, the market and the tourism is yet to be observed. The new Champions League format for the season 2024-25 was also criticized for its unnecessarily increased matches, yet was enjoyable for everyone. Henceforth, the upcoming tournament should be given the adequate time and platform for proving itself. As a football fan, it would be great if the FIFA Club World Cup 2025 is a great success and displays the football heritage of different football clubs. Fans would love to see Lionel Messi's side Inter Miami, the hosts for the tournament, lift the trophy and provide them a great experience of club football.

Football is an amazing sport reflecting various clubs of different continents competing with each other as these games depict different cultures, game styles, passion, and the determination of players towards the game. These Club World Cups are often referred to as preseason games and provide a very immaculate experience. The final match of the Club World Cup 2011 witnessed an intense competition between amateur Neymar and popular Messi in the Santos vs. Barcelona match. But considering the new format as the pre-season tournament, and the players already playing increasingly more games, it could look like a heavy schedule for them.



## an elixir inside - the art of breathing

We breathe. Do we know what exactly breathing is? Is breathing simply a chemical reaction? Is breathing merely inhalation and exhalation of our air? Or is it just a way to pass oxygen to our tissues through haemoglobin?

Science says yes, but spirituality says it's much more than that! Then science says oh!, it's paranormal and we western apes call its superstition.

Actually, the biology of breathing and respiration was discovered by scientists around 18th and 19th century CE. The epoch of rationality and naturalism was at its peak..

Well, this article is not only about the secrets of breathing that scientific world has yet to decipher, rather it is about the elixir of our Puranic Indian knowledge system that is abandoned of its legacy, its pride and prove.

And one such elixir for today's discussion is our knowledge of breathing. **Swara Sastra** is our holy book written thousands of years ago. **Swara** means breathe and **Shashtra** means book in Sanskrit. It is a conversational book based on knowledge given by Lord Shiva to his wife Parvathi about the secrets of breathing. The most interesting feature of this book is that it is highly encrypted.

Much like in encryption processes, the way we jumble the letters of a password that is stored in our databases like mongo DB, similarly, Lord Shiva's shlokas in this book is secretly given - spread in an unknown progression in different pages. Only the one who is genuinely interested in it can decipher it. It's said that if someone has the secret of the breath, he/she can transform his life and become the Siddha - a supernatural entity. History has shown humankind the divinity of Gautam Buddha, Ramakrishna Paramhansa, Swami Vivekananda, Mahavira and recently of Dev raha Baba (who lived +200 years) - who all are aware of the secrets of breathing. We students chase our goal, be it career success, or success of our Valentine. We keep on chasing like a rat inside a wheel. We hardly think of looking this wheel from outside or coming out of that wheel.

The part of knowledge that I'll be sharing, now, is just like a single line of code from GPT's coding architecture.

When we breathe, there is a special organ system, **Nadi** system that inhales this prana energy along with the breathe. This system of **Nadi** is invisible, consisting of particles that are yet to be discovered by our science, and hence the community of science remains unaware of this fact. **Swar Sastra** has elaborate study on this organ system of humans.

The point where these two **nadi** intersect makes, the Chakra. The most important of them lies on our spine - ida, Pingala and sushma - as they are located in the **Pran Marg** (the passage of life). The activation of these Chakra depends on our breathing pattern and it affects our vital life processes. Even the right time of Chakra activation can help one create designer babies as illustrated in swara Shastra.

The Chakra's - Ida is affected by moon is feminine in form ,Pingala affected by sun is masculine in form, and that is why our horoscope and zodiac system, our festivals, our routines are based on timings and positioning of moon and sun (proven by science few centuries ago). Even, activation of ida and pingala at different time between two sexes (homo- / hetero) is the reason for an unknown attraction between them - you say , love.

Our vedic system talks about **Siddhi's** - even Hanuman challisa chants "**Ashta - Siddhi Ke Datta**". Common in all religion yet known with different names and senses in different regions and religion. Siddh Purush can easily transform himself into non-existence by traversing level of brain waves, he can see the future - scientifically through manipulating time-space curve (theory of relativity by Einstein). Though, these are difficult to achieve and can be practised through calmness of breath and mind.

An advice for the student community in the context of knowing the significance of breathe and mind can be given here. For enhancing one's focus, concentration and will power (Iccha Shakti). One can do **Dhyan**. It is not meditation! **Dhyan** is a unique Sanskrit word, which has no contemporary in English language. Meditation is about focusing on something. **Dhyan** is beyond this. "**Dhyan** is a way to come out of your consciousness" to seek the different levels of our mind.

The art of breathing gives us a sense of our third eye that can see our consciousness. a simple exercise that one can do to realise our inner real self is 1) to sit in a quiet place in a relaxed posture 2) keep your eyes close 3) take Deep breathe as much as you can comfortably 4) and exhale slowly and steadily 5) try to be blank in your mind, but obviously thoughts will come 6) the secret to manage this hindrance layer of thought is to look at the gaps 7) This means when thought "A" ends, and thought "B" starts, that very moment, try to look for blackness. Never force your mind to stop thinking. It will be realised by own. It is this elixir that has kept our civilisation perennial like river Ganga, Omni-present like air and eternal like supreme energy.

# TRAITOR

The traitor slumped against the cold, damp stone wall, his breath ragged and shallow, as if his lungs were caged in iron. The memories of his betrayal were not mere ghosts—they were blades, each one twisting deeper into his chest, drawing a burning pain that he could neither silence nor ignore. His mind replayed the king's final look of disbelief, the flash of trust breaking like a mirror shattered underfoot, and it clung to him like rot. The blood that had spilled in that darkened hall was not just on his hands; it coated him, seeping into his very skin, a curse that wouldn't fade.

He'd tried to wash it away—he'd scrubbed his skin raw, tried to burn the smell of blood and death from his armor, but no amount of cleaning could erase it. The scent clung to his breath; the taste of iron lingered on his tongue, as if he'd swallowed the blood of every loyal soldier who had died believing in him. It was as though his own heart beat out of rhythm, a slow, tortured rhythm that mocked his every breath. At night, the screams echoed in his mind, each one a claw raking across his nerves, dragging him back to that unforgivable moment.

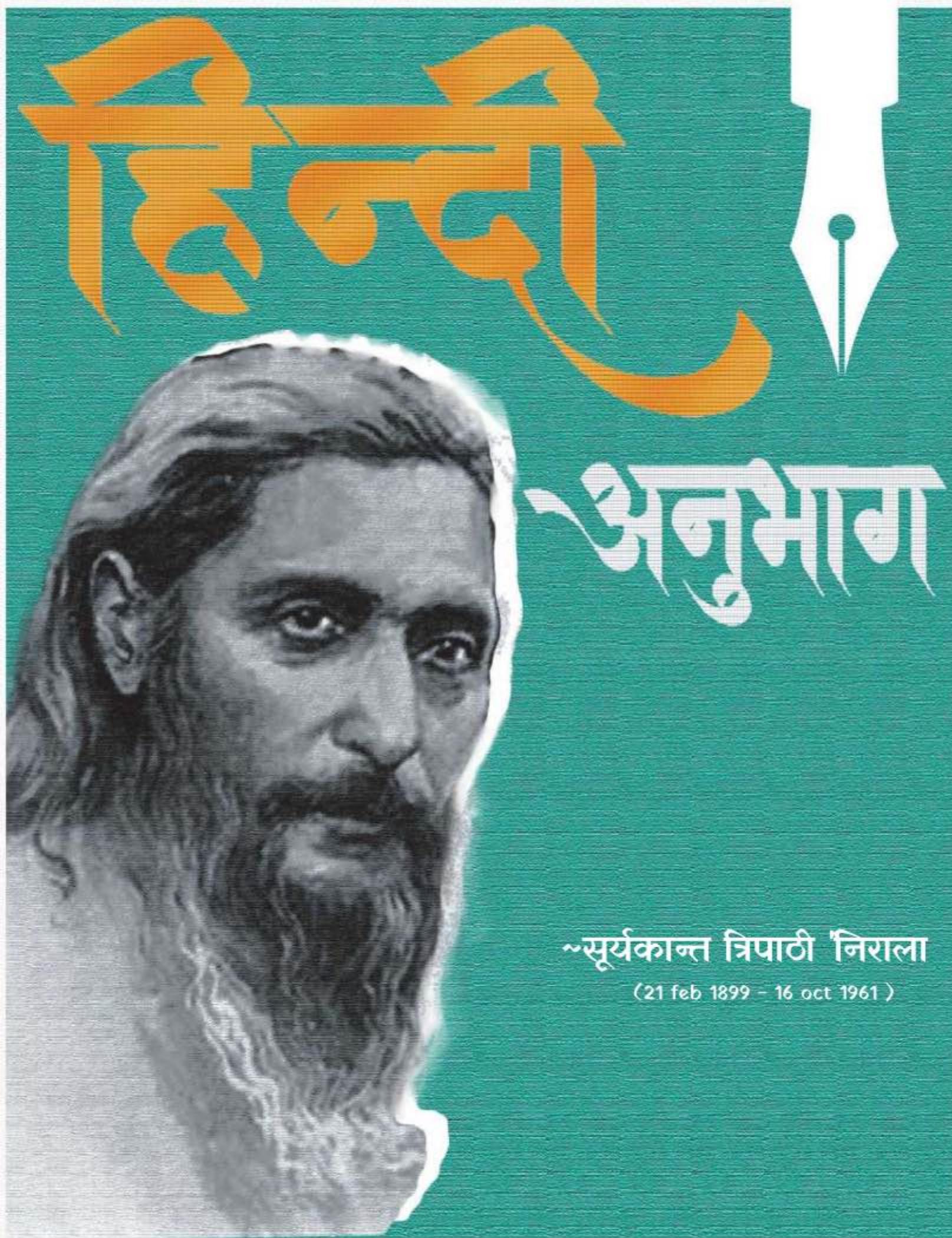
In the dead of night, he would claw at his throat, gasping for air, feeling as though invisible fingers were wrapped around his neck, squeezing, choking him. He couldn't scream, couldn't beg for release—his voice was dead in his throat, as lifeless as the king he'd left behind. Every time he closed his eyes, he saw his friend's face, decayed and hollow, lips curling into a silent accusation. No sleep could bring him peace; he was trapped in a waking nightmare, damned by his own treachery.

His once-ambitious dreams had become a festering wound, a slow, rotting poison eating away at him from the inside. Every breath he took was a reminder that he lived while the king lay cold in the ground, betrayed by the man he'd called brother. There was no comfort left, no peace to be found. All he could do was wait, hoping that one day, death might finally come to free him from this living hell. But even that felt too merciful—an escape he no longer deserved.

~Raghavi Anand  
Chemical Department

DESIGNED BY - MD TARIK KHAN





~सूर्यकान्त त्रिपाठी निराला

(21 feb 1899 - 16 oct 1961 )

सूर्यकांत त्रिपाठी 'निराला' केवल एक कवि नहीं थे, बल्कि वे एक विचारधारा थे। उनका जीवन और लेखन दोनों ही पारंपरिक ढर्से से अलग थे, और यही विशेषता उन्हें "निराला" बनाती है। निराला केवल कवि नहीं थे, बल्कि उन्होंने उपन्यास और कहानियाँ भी लिखीं। उनकी रचनाएँ, उनकी संघर्षशीलता, और उनकी विद्रोही प्रवृत्ति उन्हें हिंदी साहित्य का एक अद्वितीय और अपरिहार्य स्तंभ बनाती हैं। उनकी रचनाएँ हिंदी साहित्य में अमूल्य धरोहर के रूप में मानी जाती हैं।

हिंदी साहित्य के अलावा उन्हें संगीत से विशेष प्रेम था। वे शास्त्रीय संगीत के जाता थे और अपनी कविताओं में संगीतात्मक प्रवाह बनाए रखते थे। इसके अलावा, वे चित्रकला में भी रुचि रखते थे और कला को साहित्य के साथ जोड़कर देखते थे।

उनके सम्मान में उत्तर प्रदेश सरकार ने "निराला सम्मान" नामक पुरस्कार की शुरुआत की। मरणोपरांत उनकी रचनाओं को और अधिक मान्यता मिली, और हिंदी साहित्य के इतिहास में वे अमर हो गए।

उनकी रचनाएँ "अनामिका" (1920), "सरोज-स्मृति" (1928), "वह तोड़ती पत्थर" (1934), "राम की शक्ति पूजा" (1936) इतनी सराहने योग्य हैं कि कई परीक्षाएँ जैसे साहित्य, सरकारी सेवाओं, और उच्च शिक्षा में इनका अध्ययन किया जाता है।

उनकी रचना सरोज स्मृति कि एक पत्ति "कभी हार नहीं मानी, केवल चलते रहे, पत्थरों को मसलते हुए जीवन में अड़िग रहे।" उनके जीवन यात्रा को सटीक ढंग से दर्शाती है।

निराला का जीवन खुद एक कविता था—संघर्षों का, विद्रोह का और अंततः अमरता का।

# गुरु की महिमा

अक्षर-अक्षर हमें पढ़ाते ,  
शब्द-शब्द का अर्थ बताते ,  
कभी प्यार से, कभी डांट से  
जीवन जीना हमें सिखाते |  
मेहनत और लगान से अपनी  
जिम्मेदारी का एहसास जगाते ,  
गलती से भी भटक जाए तो  
सही राह पर हमेशा लाते |  
कितने उपकार हैं, कैसे बताए  
गुरु कभी भी, यह ना जाता ते  
जाती-धर्म का भेद मिटाकर  
इन्सानियत की राह दिखाते |  
कुछ मिले या ना मिले कभी ,  
शांति से नई पीढ़ी बनाते,  
समय कठिनआए जो मेरा  
समाधान का खोज कराते |  
ब्रह्मा, विष्णु और महेश्वर  
तिनों एक जगह पर पाते ,  
बहुत बड़े हैं भाग्य हमारे  
जो गुरु अभी भी रीत निभाते |

नौसिखिये परिंदों को,  
बाज़ बनाना जिसे आता है|  
शांति से सुन शिकायते जो,  
बदलाव की आंधी लाता है|  
दिल बच्चों का कोरा कागज़,  
सुनहरा भविष्य लिख पाता है|  
किताब से भी आगे जाकर,  
जीने की कला सिखाता है|  
अंधेरे हो कितने ही घने,  
रोशनी की लौ जलाता है|  
बंद हो सब दरवाज़े जब,  
उम्मीद की किरण जगाता है|  
माँ-बाप की मुरत बनकर,  
हर मुश्किल हल कर देता है|  
मिट्टी से कोहिनूर बना कर,  
चैन की सांस ले पाता है|  
दीपक सा खुद जलकर भी,  
ज्ञान का प्रकाश फैलाता है|  
जीवन में सही राह दिखाए,  
वही शिक्षक कहलाता है|

प्रा. दिपक कापसे  
संगणक अभियांत्रिकी विभाग,  
भारती विद्यापीठ, पुणे.  
डिजाइनर-: सुयश पांडे



# दाढ़ू

दिन भर की थकान उतर जाती थी ,  
जब स्कूल बस से उतरते ही दाढ़ू गले से लगाते  
और मेरा बस्ता खुद उठाकर मुझे घर ले जाते।

बचपन से, जिसके पास सबसे ज्यादा सुकून पाया ,  
उस दिन उन्हें सफेद चादर की सिलवटों में लिपटा देख,  
पता नहीं उस पल कुछ समझ ना आया।

बचपन में, आँख खुलते ही जिन्हें सबसे पहले पूरे घर में खोजा करती,  
उस दिन वहीं अपनी आँखें बंद कर सुकून से लेटे नजर आए।

पूरा गाँव, जिसके कंधों में बैठ के घुमा,  
उस दिन उनको ही चार कंधों में देख,  
पूरी दुनिया नभी से धुंधली नजर आए।

मेरी एक ख्वाहिश पे, पूरी दुनिया मेरी कदमों में रख देने वाले ,  
उस दिन मेरे बुलाने पर उठ तक न पाए।

मेरा हाथ ना पहुंचने पर, जिसने हमेशा मुझे फूल तोड़ कर दिए ,  
उस दिन उन्हीं फूलों को उनपर बिछा देख,  
शायद मेरी मासूमियत कहीं खो सी गई।

मुझे सुलाते समय, सर थपथपाते हुए जिन चूड़ियों की आहट, मेरा सबसे सुहाना सपना हुआ करती थी ,  
उस दिन उन्हीं चूड़ियों के टूटने की आवाज, मेरा सबसे भयानक सपना हो गई।

बचपन से, दादू के साथ खाना खाने की आदत थी, अब निवाला गले से कैसे उतारूं ,  
 नींद ना आने पर, किसकी लोरी से परियों की दुनिया में खो जाऊं ,  
 अपनी शरारतों के बाद, माँ से छुपने के लिए किसके पास जाऊं ,  
 एक बार बता तो देते, दादू, आपके बिना कैसे आपके कमरे में वापस जा पाऊं|

काश उस दिन, स्कूल जाने से पहले, क्षण भर रुक कर ,  
 एक लम्हा चुरा कर आपके पास बैठ गई होती ,आपसे बात कर ली होती,  
 तो शायद आपको चुप देख, उस पल मेरे भी आंसू बह जाते|

दादू, उस दिन पूरी रात बिना पलक झपकाए आपको देखा था ,  
 इस उम्मीद में की अब तो आप उठ ही जाओगे ,  
 बावली थी मैं, क्या पता था, आप जिंदगी की रीत सिखा जाओगे|

अब तो यही कहूँगी, बस कभी-कभी मेरे सपनों में आकर थोड़ी खुशी दे जाना ,  
 आप जहाँ कही भी हो, कभी मुझे भूल ना जाना ,  
 आशीर्वाद तो आपका हमेशा मेरे साथ रहेगा, लेकिन  
 आपके ना होते हुए भी, मेरे सर से अपना हाथ कभी ना उठाना|

जानती हूँ, आप लौट कर तो नहीं आ सकते,  
 मगर मेरी यादों में हमेशा मेरे साथ रह जाना,  
 हमेशा मेरे पास रह जाना.....

# एक आम लड़का

जब पैदा हुआ, खुशी छा गई थी,  
घर में मुस्कानें बिखर सी गई थी।  
मम्मी ने आँचल में चेहरा छुपाया,  
पापा ने ख्वाबों का महल सजाया।

खेल - कूद की दुनिया जब बसने लगी,  
किताबों की ठंडी हवा चल पड़ी।  
गेंद की जगह हाथों में किताब,  
ख्वाबों की जगह सवालों के जवाब।

पापा का सहारा, मम्मी की उम्मीद,  
दाढ़ी के चेहरे पर खिली खुशी की जीत।  
चाहुं थी कि खुद को बस जी लेने दे,  
पर ख्वाब जो सबके थे, वो अपने सर ही लेने थे।

जब प्यार की हल्की सी बँड़े गिरी,  
मेरी कश्ती थी उसी किनारे खड़ी।  
जीत न पाया इस इश्क की जंग,  
लोग आगे बढ़ गए, रह गया मैं यादों के संग।

वो कॉलेज जहाँ जाना चाहा था,  
किस्मत ने दरवाजा बंद कर दिया।  
पापा ने कीमत कुछ ज्यादा ही चुकाई,  
बेटे की कोशिश तो उन्होंने कुछ हल्की ही पाई।

फिर शादी हुई बगैर पसंद,  
चेहरा खुश मगर दिल था बंद।  
सबको खुश रखने की भगदड़,  
ये दिल बसा है एक पत्थर पर।

अब बेटे से बेहतर उम्मीदें रखते,  
अब वहीं सपने उनके आँखों में चुभते।  
जो खुद ना कर पाया ज़िंदगी में,  
वो बेटे के कंधों पे लाद दिया।

ये चक्र कभी रुकता नहीं,  
हर आम लड़का कहानी बुनता यही।

# मृगतृष्णा

मेरे लिए तो दुनिया बहुत सुनहरी थी,  
मैं तो बस चाँद को देखा करती थी,  
मगर वो दाग कब मुझे छू गए, समझ ही नहीं पाई।  
मैंने तो सिर्फ गुलाब लिया था,  
वो काँटे कब मुझे ज़ख्मी कर गए, पता ही नहीं चला।  
मैं तो बस तारों को गिन रही थी,  
वो काली रात कब तारों को निगल गई, समझ ही नहीं आया।

मैं तो परियों की दुनिया में रहती थी,  
न जाने ये कैसा सवेरा आया कि सारी परियाँ बस मूरत बनकर रह गई।  
मैं तो आँखों पर पट्टी बाधकर खेल रही थी,  
आँखें खुलीं तो समझ आया, दुनिया तो मेरी कहीं पीछे ही रह गई थी।  
मैं तो रौशनी की तलाश में निकली थी,  
न जाने कैसे अंधेरे से सामना हो गया।

मैंने तो इसे शीशमहल माना था,  
मगर इसके काँच ने तो मुझे ही ज़ख्मी कर दिया।  
मैं तो इसकी चमक देखकर खुश हुआ करती थी,  
मुझे कहाँ पता था कि ये चमक मेरी रौशनी ही छीन लेगी।  
मैं तो इसके रंगों में घुलने लगी थी,  
मगर ये रंग तो मुझे ही बेरंग कर गए।  
अब न चाँद हैं, न हाथों में गुलाब,  
आसमान में अब तारे भी नहीं हैं,  
परियों की दुनिया भी नहीं रही...  
न आँखों पर पट्टी है, न रौशनी की तलाश।  
अब न शीशमहल में चमक है, न उसमें बचा कोई रंग।  
मगर, दुनिया ये मेरी अब भी बहुत सुनहरी है।

शीतल थापा

इलेक्ट्रॉनिक्स एंड कम्युनिकेशन

सेमेस्टर ४

डिजाइनर:- सुयश पांडे

# नज़रबद्दु

यूं तो मुझे इंदौर में रहते हुए ज्यादा समय हुआ नहीं था पर सही माइनो में मेरा बचपन इन्हीं गलियों में खेल कूदकर गुज़रा है।

जी हा , "बचपन", मेरा असली बचपन था मेरी गर्मी की छुट्टियां, जब मैं सारी फ़िक्रें, सारी पढ़ाई छोड़ कर मैं यहाँ आती थी। साल बीतते गए और गर्मी की छुट्टियां सिंफ़ छुट्टियां नहीं रही, वो बदल गई एंट्रेस एग्जाम की तैयारी में, जहाँ गर्मियों में खाने के लिए आइस क्रीम तो थी पर साथ ही साथ रिवाइज करने को पी - ब्लॉक भी,

जहाँ खेलने को मैदान तो थे, पर दोस्त नहीं,

समय गुज़रा, दिन बीते और आखिरकार कॉलेज में दाखिला हुआ, शहर चुना तो इंदौर।

इंदौर कुछ ऐसा है -

सुबह का अखबार चाय की चुस्कियों के साथ, नाश्ते के लिए बोलो तो होजाये पोहे के संग जलेबियों का साथ,

है स्वाद की तो पूछिए ही मत बात,

क्यूं? आगया ना मुँह में पानी.. यही तो है हमारे इंदौर की बात। सुबह सुबह का समय था और दिन था शनिवार का, हम सारे कॉलेज जाने वाले दोस्तों की मंडली बैठकर ये विचार ही कर रहे थे कि क्यों न आज लेक्चर बंक किया जाए.. शनिवार है, छुट्टियां मनाएंगे। पर फिर हमने सोचा, पहले पेट पूजा फिर काम दूजा। हम सभी अपनी पसंदीदा नाश्ते की दुकान पर पहुंचे, तभी मेरी नज़र कुछ बच्चों पर पड़ी। गौर कीजिये, मेरी कहानी में जितने भी किरदार है, छोटे हैं पर सब बड़े ही वफ़ादार हैं।

जैसे ही मैंने अपनी पोहे की प्लेट हाथ में ली, मैंने देखा मेरे सामने उन बच्चों के झुंड का सबसे छोटा लड़का आ खड़ा हुआ, उसकी छोटी उम्मीदभरी आंखें, फटी कमीज़ और बिन चप्पल के नन्हे पैर, उसने मुझसे दबी सी आवाज़ में कहा , "दीदी ये गुलाब ले लो ना ! "। हा माना महीना वैलेंटाइन का था पर किस्मत इतनी अच्छी कहाँ ? मैंने उस बच्चे से कह दिया , "नहीं भाई मैं इन गुलाबों का क्या करूँगी ? "

पर न जाने क्यों मुझे उन बच्चों को ठुकराते हुए अच्छा नहीं लगा, सभी बच्चे वहाँ से सर झुका कर आगे बढ़ गए। मैंने उन्हें रोका और पूछा , "अरे सुनो ! गरम पोहा खाओगे ? " सबके चेहरे पर एक खिलखिलाती मुस्कान दिखी, मानो उनमें एक खुशी की लहर दौड़ उठी हो, मैंने उन्हें कुछ पैसे दिए और वहाँ से कुछ कदम आगे बढ़ गई। सारे बच्चे पोहा खरीदने के लिए दुकान की ओर बढ़े, और दुकानदार से पोहे की मांग करने लगे। दुकानदार का व्यवहार बच्चों से बड़ा ही कड़वाहट भरा था उसने बच्चों को नाश्ते की प्लेट दी और वहाँ से भगा दिया। भीड़ इतनी थी कि बच्चे वहाँ से जैसे तैसे निकले और ऐसी जगह जा कर खड़े हो गए जहाँ भीड़ थोड़ी कम थी।

उतनी ही देर में एक बच्चा भागता हुआ वापस दुकान की ओर जाने लगा, तभी उसके दोस्त ने उसे रोका और कहा, "अरे कहा जा रहे हो ?" उसकी आखों में एक उत्सुकता थी, एक ऐसी चमक थी मानो वो किसी खजाने की खोज करने जा रहा हो।

उसने अपने दोस्त को इशारा किया और कहा, "ज़रा ठहरो .. मैं अभी आया।"

सारे बच्चे उम्मीदभरी आस लिए बैठे रहे, कुछ देर बाद वो बच्चा बड़ा ही मायूस होकर अपने दोस्तों के पास आया और सर झुका कर खड़ा रहा, उन्होंने उससे पूछा, "अरे आखिर बात क्या है ? हम इतनी देर से तुम्हारा इंतज़ार कर रहे हैं, देखो अब तो पोहे भी ठन्डे हो गए।"

बच्चे ने धीमी आवाज में कहा, "वो मुझे पोहे पर नीम्बू डालकर खाना बहुत पसंद है, बिन नीम्बू के पोहा अधूरा सा लगता है"।

उनमें से एक बच्चे की नज़र पड़ी बगल वाली इलेक्ट्रॉनिक्स की दुकान पर।

दुकान का मालिक शनिवार के दिन शनि की कु-दृष्टि से बचने के लिए एक नींबू मिर्च के नज़रबटू से दुकान की नज़र उतार रहा था।

न जाने क्यों सभी बच्चों की आखें चमक उठी, जैसे ही दुकानदार ने नज़र उतार कर उस नज़रबटू को दूर फेंका, सभी बच्चों में तेज़ हलचल मची।

उस नींबू तक पहुंचते पहुंचते उन्होंने कई लोगों को उसपर रौंध कर जाते देखा पर उनकी आस कम न हुई।

एक बच्चे ने उस नींबू को उठाया अपनी कमीज से पोछकर पोहे पर निचोड़ा, सबने अपने पोहे का पहला कौर लिया, उन चेहरों का संतोष, वो एक समाधानी मुस्कान, मानो इस पुरे हश्य ने मुझे जीवन की सीख दी हो।

अक्सर हम मनुष्य हर चीज़ की निंदा करने में अपना वक़्त इतना ज़ाया कर देते हैं की सारी उम्र हम जिन छोटी चीज़ों को लेकर खुश रह सकते हैं उन पर गौर ही नहीं करते।

वो दिन था और आज का दिन है, मैंने हमेशा अपने जीवन की चाहे कठिन से कठिन परिस्थिति हो चाहे छोटी से छोटी परेशानी सिर्फ उसमे

सकारात्मक पहलु ही खोजा है।

भले ही ये एक किस्सा है, पर मुझे इन किरदारों की दी गयी सीख से प्यार है।

किसी ने सच ही कहा है, "कहानियों में ही तो प्यार है, बाकी सब तो व्यापार है।"

और हाँ, पोहे पर नींबू जरूर डालिये.. जिस तरह थोड़ा सा नींबू का रस एक व्यंजन की सारी जान बन सकता है, ठीक उसी तरह छोटी बातों की खुशियां आपके पुरे जीवन को खुशहाल बना सकती हैं।

# कलयुग की द्रौपदी

कलयुग की द्रौपदी शस्त्र उठाओ, अब श्रीकृष्ण नहीं आएंगे,  
सहारा देने वाला कोई नहीं, अब खुद ही राह बनाएंगे।  
दया और सहयोग के दिन गए, अब समय बदल चुका है,  
अंधकार के इस युग में, हर चेहरा छल चुका है।

कभी लक्ष्मी की तरह सुशील, कभी काली की तरह विकराल,  
अपने स्वाभिमान की रक्षा करो, खुद से करो प्यार।  
पढ़ाई हो या अधिकार, हर दिशा को दो आकार,  
अपने हक्क के लिए लड़ो, करो सपनों को साकार।

अबला कहकर जो अपमान करें, उन्हें अपना रूप दिखाओ,  
रणचंडी का रूप धर, हर कुरीति को मिटाओ।  
जंगल, सड़क, घर या चौखट, हर जगह अपनी पहचान बनाओ,  
अबला नहीं, अद्वितीय हो तुम, अपने कदमों की छाप छोड़ जाओ।

खुद को संगठित कर, हर जुल्म का दो जवाब,  
संघर्ष की इस राह में, नव चेतना का करो निर्माण।  
मत रुको, मत थको, निढ़र हो आगे बढ़ो,  
जीवन के हर पड़ाव में, उत्कृष्टता का प्रदर्शन करो।

वर्षों-वर्ष का इतिहास बदलने का वक्त आ गया है,  
अब हर स्त्री के चेहरे पर तेज आ गया है।  
पुरुष से बराबरी नहीं, उससे आगे बढ़ने का सपना देखो,  
जागृत समाज करने को, अभ्युत्थान का सपना देखो।

समाज की चुप्पी तोड़ो, पूर्वाग्रह का नाश करो,  
हर कष्ट का सामना कर, दृढ़ता पूर्ण विश्वास करो।  
अबला नहीं, शक्ति स्वरूपा, ये पहचान तुम्हारी है,  
हर अन्याय मिटाने वाली, यह कहानी तुम्हारी है।

हर बेटी, हर स्त्री की एक ही पुकार है,  
काली जाग चुकी है, अब मिटाना अन्याय अपार है,  
अब रघु, न माफी, बस प्रचंड आग है,  
हर नारी, अब रणचंडी बन तैयार है।

राधवी आनंद  
केमिकल इंजीनियरिंग  
सेमेस्टर ४  
डिजाइनर-: सुयश पांडे

# मेरे हिस्से में

ये धरा हूँ, ये भूमि हूँ,  
ये वाय हूँ, ये जल हूँ,  
ये घर हूँ, तुम्हारा कल हूँ,  
अनायास, तुम्हारी हर मुश्किल का हल हूँ।

निसंदेह, तुम सक्षम हो,  
ताकत के लहराते परचम हो।

परंतु,  
तुम्हारे सामने मैं झूँकूँ क्यों?  
तुमसे दूर के मैं रुकूँ क्यों?

मेरी गोद में पलता है निर्माण,  
मेरे ही संग होता है खिलवाड़।  
ये तुम्हारी निर्बलता का खेला है,  
ये भूमि मेरी अशक्ति का मेला है।

सशक्त हूँ, उन्मुक्त हूँ,  
पीड़ाओं से अभ्यस्त हूँ।  
प्रेम मोहब्द हूँ,  
पर तुम ही से लस्त हूँ।

कर लोगे व्यवस्थित आहार,  
कर लोगे अपना नाम प्रख्यात,  
कर लोगे व्यतीत अपना  
तुम जीवन अपार,

परंतु,  
मेरे बिना कैसे करोगे इस सृष्टि का उद्धार?

ना घर मेरा, ना नाम मेरा,  
ना दुनिया मेरी, ना सम्मान मेरा।  
ना अन्न मेरा, ना आहार मेरा,  
ना साहित्य मेरा, ना इतिहास मेरा।  
ना शस्त्र मेरे, ना शास्त्र मेरा।

परंतु  
सरस्वती मैं, अज्ञानता मेरे हिस्से में।  
तुलसी मैं, अपविलता मेरे हिस्से में।  
लक्ष्मी मैं, क्रण मेरे हिस्से में।  
जननी मैं, विनाश मेरे हिस्से में।  
शक्ति मैं, निर्बलता मेरे हिस्से में।

अपमान मेरा, दुष्कर्म मेरे हिस्से में।  
जिम्मेदारी मेरी, बंधन मेरे हिस्से में।  
दवा मेरा, मर्ज मेरे हिस्से में।  
स्तुति मेरी, पाप मेरे हिस्से में।  
सृष्टि मेरी, पर केवल कुकर्म मेरे हिस्से में?

ये शब्दालंकर मेरे,  
पर इनकी ना पिरो पाने की वेदना मेरे हिस्से में।  
ये कविताएं मेरी,  
पर इनका केवल मेरी डायरी में रह जाने की यंत्रणा मेरे हिस्से में।

इस्पिता वि शुक्ला  
इलेक्ट्रॉनिक्स एंड टेलीकम्युनिकेशन  
सेमेस्टर ४  
डिजाइनर-: सुयश पांडे



# घर छोड़ आए हम

घर छोड़ आए हम, उन गलियों की छाँव,  
जहाँ बचपन में बुने थे सपनों के गाँव।  
वो मिट्टी की सोंधी महक अब भी याद है,  
वो चौखट की कसमसाहट अब भी साथ है।

कभी माँ की गोद थी, कभी आँगन का खेल,  
अब दूर तक बिछी है बस यात्रा की रेल।  
वो तुलसी का चौबारा, दीपक की लौ,  
अब अंधेरों में धुली है, चुप्पियों में गई खो।

छोड़ आए हम वो चौपाल की बाते,  
जहाँ शामे रचती थीं यादों के नाते।  
जहाँ हर कोना था अपना सा स्मृति,  
अब शहरों में खोए हैं, अजनबी सी महफिल।

बचपन की निशानियाँ, दीवारों पे रेखाएँ,  
अब भी पुकारें वो टूटी हुई आशाएँ।  
वो खिलखिलाहट, वो कागज की नाव,  
अब भी आँखों में तैरती है उसकी छाँव।

परिवर्तन की लहरों में बहते चले गए,  
सपनों की चाह में सब कुछ सहते चले गए।  
कभी बाबुल की दहलीज़ पर रुके थे,  
आज पत्थरों से रिश्ते गढ़ते चले गए।

शहर की रफ्तारों में कहीं खो गए,  
दिल से गांव के है, लहज़े से शहर के हो गए।  
रिश्ते अब चिट्ठियों में नहीं रहते,  
यादें अब आंसू बन कर आंखों से बहते।

घर छोड़ आए हम, मगर दिल वहीं रुका है,  
जहाँ माँ के कंधे पे हर दर्द झूका है।  
शायद वक्त की धारा हमें दूर बहा दे,  
मगर वो आँगन, वो प्यार, कोई कहाँ भुला दे?

# ये ना कहना

तुम ये समझाना की हमारे किस्मत मे साथ रहना नहीं था,  
 अगर तुम उस शाम नहीं भी आई तो  
 तुम ये बताना कि तुम्हे आने नहीं दिया गया,  
 तुम ये ना कहना कौन तुम्हारी इच्छा नहीं थी  
 इसीलिए तुम नहीं आई ।

तुम बताना कि रास्तों ने तुम्हे रास्ता नहीं दिया,  
 हमारे बिखरे इश्क ने तुम्हें कोई वास्ता नहीं दिया ।

तुम बताना कि बस छूट गई,  
 यूँ मिलने की आस टूट गई ।

तुम कहना कि तुम्हारा वो मनपसंद दुपट्टा कही खो गया,  
 बिल्कुल मेरे इंतजार की तरह ।

तुम कहना कि नाव मे जगह कम थी,  
 तुम्हारे ना आने पर तो ये आँखें भी नम थी ।

तुम कहना माँ बीमार पड़ गई,  
 घर मे कठिनाइयां बैशुमार बढ़ गई,  
 तुम ये कहना मैं छाता भूल गयी थी ।

तुम बस कह देना मैं मान लूंगा की फूल काटे बन गए,  
 घटा शोले बरसाने लगी,  
 तितली ने तुम्हें भटका दिया  
 और पहाड़ तुम्हारे सामने हो गये ।

तुम कहना कि बाबजी ने चौखट पर रोक लिया,  
 तुमने उसी वक्त मेरे खतों को आग के लपटों में झोक दिया ।

तुम कहना कि दिल मे बसे हमारी तस्वीरों के शीशे चकनाचूर हो गए  
 और इस क़दर तुम कांच के टुकड़ों पर कैसे चल कर आती ।

तुम कहना कि तुम्हे आने नहीं दिया गया,  
 तुम देना सौ बहाने  
 पर ये न कहना कि तुम इसलिए नहीं आयीं क्योंकि तुम आना नहीं चाहती थीं ।

अमृत ज्ञासन  
 इलेक्ट्रॉनिक्स एंड टेलीकम्युनिकेशन इंजीनियरिंग  
 सेमेस्टर ८  
 डिजाइनर-: सुयश पांडे



# इश्क़ का वेंटिलेटर

क्या होता होगा , जब धीमी होश में अस्पताल के बिस्तर पर पड़ा एक बीमार आदमी डॉक्टर के हाव - भाव से महसूस कर ले की बस अब उसके जीवन के कुछ दिन ही बचे हैं।

दूसरी तरफ कुछ लोग जो उसे बचाने के लिए एड़ी-चोटी का जोर लगा रहे हैं,  
यह जानते हुए कि उस तरफ से टूट चुकी है हिम्मत मगर वेंटिलेटर के सहारे ही टिकाए रखा है जिंदगी को।

पर सवाल यह है कि, अखीर कब तक?

खैर , जहाँ बात रिश्ते की होती है वहां “सवाल” का कोई सवाल ही नहीं उठता ।

मुझे लगता है “इश्क़” में भी कुछ ऐसा ही होता होगा जब पता चल जाए कि किसी एक को भी कि ये रिश्ता अब दम तोड़ रहा है , किसी एक तरफ से टूट चुकी हो हिम्मत तो दूसरी तरफ का सारा जोर व्यर्थ हो जाता है , भले ही ईश्वर से कितनी भी कर ले पुकार ।

मगर फिर भी वेंटिलेटर पे घुट-घुट के ज़ी रहा होता है , अपना इश्क़ किसी एक उमीद के सहारे ।

पर सवाल यह है कि, अखीर कब तक?

खैर , जहाँ बात रिश्ते की होती है वहां “सवाल” का तो सवाल ही नहीं उठता ।

स्वरूप मिश्र

इलेक्ट्रॉनिक्स एंड टेलीकम्युनिकेशन

डिजाइनर-: सुयश पांडे



# रहस्यमयी दोस्त

साल था 2022, शोभित और जतिन स्कूल से घर लौटते समय बातें कर रहे थे।

"यार, लेकिन वो तो फ़िक्शनल ही है न..."

"तब भी भाई, देख ना! उनके पास आयरन मैन, बैटमैन, सुपरमैन, थॉर, हल्क जैसे कैरेक्टर्स हैं। उनकी सुपरपावर असली सी लगती है। ऐसा लगता है कि ये सब कहीं न कहीं सच हो सकता है।"

शोभित ने कहा, "हमारे यहां तो ऐसा कुछ नहीं है, यार।"

जतिन बोला, "क्यों? कृष, शक्तिमान, नागराज? हैं तो सही..."

"अरे भाई, फिर भी!" कहते-कहते शोभित चुप हो गया।

थोड़ा रुककर बोला, "भाई, ये सब बनाना आसान नहीं। जितना पैसा उनकी फ़िल्मों पर खर्च होता है, उतने में तो हमारे यहां इसरो स्पेस मिशन लॉन्च कर देता है।"

दोनों हँसते हुए अपने-अपने घर की तरफ बढ़ गए।

क्लास में एक नए लड़के ने दाखिला लिया।

जैसे ही वो अंदर आया, कुछ बच्चे उसे धूरने लगे। नाम था अंकित। वो स्वभाव से शांत और कम बोलने वाला लग रहा था। क्लास की हलचल देखकर वो थोड़ा सहमा हुआ भी दिखा।

थोड़ी देर बाद टीचर आई और अंकित को क्लास में इंट्रोड्यूस कराया।

अंकित ने हिचकिचाते हुए अपना नाम, उम्र और माता-पिता के बारे में बताया। टीचर ने उसे प्रोत्साहित किया, लेकिन अंकित चुपचाप अपनी सीट पर जाकर बैठ गया।

उसके ठीक पीछे बैठे थे शोभित और जतिन। दोनों को अंकित का सरल स्वभाव पसंद आया।

उन्होंने खुद आगे बढ़कर उससे बात शुरू की।

शुरुआत में अंकित थोड़ा झिझका, लेकिन धीरे-धीरे वो दोनों से खुलने लगा।

दिन, महीने गुजरते गए और तीनों की अच्छी दोस्ती हो गई।

एक दिन...

रास्ते में चलते हुए तीनों बातें कर रहे थे। तभी दूर एक 60-65 साल की बुजुर्ग महिला नज़र आई। गली सुनसान थी और शोभित और जतिन अपनी बातों में मग्न थे।

अचानक अंकित ने बुजुर्ग महिला को आवाज दी, "माजी! वहां से हट जाइए!"

महिला चौंककर पीछे मुड़ीं और तुरंत रास्ते से हट गईं।

उसी पल, गली के मोड़ से एक बेकाबू सांड पूरी गति से आता हुआ नज़र आया। सांड जाकर एक पोल से टकरा गया-जहां कुछ सेकंड पहले वो महिला खड़ी थीं। महिला ने राहत की सांस लेते हुए अंकित के सिर पर हाथ रखा।

"बेटा, भगवान का आशीर्वाद सदा तुम पर बना रहे। आज मैं तुम्हारी वजह से बच गई।"

ये देखकर शोभित और जतिन हैरान रह गए।

"भाई, तेरे साथ तो हम भी चल रहे थे। तुझे कैसे पता चला की वहां से सांड आने वाला है?"

अंकित ने कहा, "पता नहीं, शायद इंस्टिक्ट था। और कुछ नहीं।"

जatin अब भी चूप था। उसे समझ नहीं आ रहा था कि ये कैसे हो सकता है। कुछ दिन बाद...

उस दिन होमवर्क चेक होना था।

जatin परेशान था क्योंकि उसकी नोटबुक घर पर रह गई थी। उसे डर था की टीचर डांटेंगी और नंबर काट लेंगी। शोभित ने कहा, "कोई बात नहीं, माफी मांग लेना। टीचर को समझा देना।"

अंकित ने कहा, "जatin, तुम अभी घर जाकर नोटबुक ले आओ। टीचर को आने में अभी आधा घंटा लगेगा।" जatin बोला, "पर क्लास तो 5 मिनट में शुरू हो रही है। तुझे कैसे पता कि मैडम 30 मिनट लेट आएंगी?" अंकित ने बस इतना कहा, "मुझ पर भरोसा करो। जल्दी जाओ।"

जatin ढौँडकर घर गया।

क्लास शुरू होने के कुछ मिनट बाद, ही टीचर आ गई। जatin घबराने लगा।

तभी चपरासी ने आकर कहा, "मैडम, प्रिंसिपल सर ने आपको बुलाया है।"

टीचर बाहर चली गई, और 20 मिनट बाद, जatin वापस आया तो क्लास अभी शुरू ही नहीं हुई थी। जatin ने हैरानी से पूछा, "अंकित, तुझे कैसे पता था?"

अंकित मुस्कुराया और बात को धुमा दिया।

शक बढ़ता गया...

जatin को यकीन हो गया की अंकित के पास कोई "सुपरपावर" है। उसने ये बात शोभित से कही।

शोभित ने हँसते हुए कहा, "ज्यादा फिल्में मत देखा कर। तेरा दिमाग खराब हो गया है।"

लेकिन जatin ने अपने तर्क दिए—

"कैसे उसे पहले से पता था कि आंचल हमारे पास बैठने वाली है?

कैसे उसने ग्राउंड जाने से मना किया, और उसी दिन वहां कांच के टुकड़े मिले?

कैसे उसने उस दिन सांड वाले हादसे को टाला?

और तेरी नोटबुक वाली बात?"

शोभित सोच में पड़ गया।

"तो तेरा कहना है की अंकित को चीजें पहले से पता चल जाती हैं?"

"भाई, ये को-इंसिडेंस नहीं हो सकता। उसके पास 6th सेंस है।" इतने में अंकित आ जाता है और आते ही शोभित कहता है - "हाँ भाई अंकित, इंडिया अगला वर्ल्ड कप कब जीत रही है?" अंकित को कुछ समझ आ पाता इतने में शोभित हँसने लगता है और पास खड़ा जatin समझ जाता है कि शोभित उसकी बात को मजाक में ले रहा था।

अचानक एक दिन...

कुछ निजी कारणों से अंकित को शहर छोड़कर जाना पड़ा।

शोभित और जatin उदास थे। आखिरी दिन तीनों खूब बातें कर रहे थे।

अंकित ने जाते-जाते शोभित को एक थैला दिया।

"इसे अभी मत खोलना। इस पर जो तारीख लिखी है, उसी दिन खोलना। वादा करो।"

शोभित और जतिन ने हैरानी से पूछा, "ऐसा क्या है इस बैग में?"

अंकित ने बस मुस्कुराकर अलविदा कह दिया।

**8-9 महीने बाद...**

शोभित तो उस बैग को पूरी तरह भूल चुका था, लेकिन जतिन को वो हर दिन याद आता। आखिर वो दिन आ ही गया। सुबह-सुबह जतिन हड्डबड़ाता हुआ शोभित के घर पहुंचा।

"भाई, वो बैग कहां है? आज वही तारीख है जो अंकित ने कही थी!" शोभित को पहले तो समझ नहीं आया, लेकिन फिर उसे बैग याद आया। वो आलमारी कि तरफ बढ़ा और बैग निकाला। जतिन की बेचैनी साफ़ झलक रही थी। "खोल इसे जल्दी!" जतिन ने लगभग चिल्लाते हुए कहा। शोभित ने बैग का ज़िप खींचा।

अंदर से निकले... पटाखे।

"पटाखे?!" शोभित ने चौंकते हुए कहा।

"भाई, ये किस तरह का मजाक है? किस दोस्त ने ऐसा बैग दिया है, और तू इसे 6th सेंस वाला मानता है?"

जतिन, जो अब तक बेहद गंभीर था, अब थोड़ी उलझन में दिखा।

"यार, ये सब अजीब है। आखिर क्यों उसने पटाखों का बैग देने के लिए इतनी बड़ी बात कही?"  
दोनों के सवालों का कोई जवाब नहीं था।

पर रहस्य अभी खत्म नहीं हुआ था।

**रात के 11:45 बजे...**

टीवी पर अचानक तेज आवाज आई।

"भारत ने 11 साल बाद वर्ल्ड कप जीत लिया!" हर तरफ जश्न शुरू हो गया। आसमान में पटाखों की गूँज सुनाई देने लगी। शोभित खुशी से झूम उठा।

"यार, इंडिया जीत गई!"

फिर अचानक उसकी नज़र उसी बैग पर पड़ी।

उसके चेहरे की खुशी एक पल में गायब हो गई।

"जतिन! ये बैग... ये पटाखे... ये सब क्या है?" जतिन ने बैग को घूरते हुए कहा, "अंकित ने इस बैग को खोलने के लिए आज की तारीख क्यों चुनी थी? क्या उसे पता था कि आज ये दिन आएगा?" शोभित का दिल तेजी से धड़कने लगा।

"भाई, ये कोई इत्तेफाक नहीं हो सकता। आखिर अंकित कैसे जानता था कि आज का दिन इतना खास होगा?"

दोनों बैग को फिर से देखने लगे।

बैग पर लिखी तारीख थी—29 जून 2024।

आदित्य बिलाला जैन

कंप्यूटर साइंस एंड बिजनेस सिस्टम

सेमेस्टर ४

डिजाइनर-: सुयश पांडे

# सुकून

मत चाहो उसे,  
जिसे तुम्हारी फ़िक्र ना हो ।  
तुम्हारी नूर भी ,  
उसे पिधला ना सकेगा ॥

मन को समझा लो,  
अपनी रसभरी बातों से ।  
तेरे चित को तेरी तरह,  
कोई समझा ना सकेगा ॥

मत ही खफा तू,  
अपने किस्मत के लकीरों से ।  
तू अपने कर्मों से सजा उसे ,  
खुद से अच्छा कोई बना ना सकेगा ।

# शिकायते

कुछ तो कर मानुष,  
इस हरियाली के लिए ।  
एक सुकून-सा श्वास लेने दे,  
जिन्दा रहने के लिए ।

बसेरे के लिए घोंसले,  
तो बहुत बनाया ।  
कुछ आभा और बयार भी  
आने दे,  
जिन्दा रहने के लिए ।

क्यू भाग रहा उसके पिछे तू,  
जिसकी जरूरत भी नहीं तुझे ।  
थोड़ी-सी प्रेम और स्नेह रख रिश्तों में,  
जिन्दा रहने के लिए ।

# मैं बदल आवारा

क्या हस्ती है मेरी, जो मैं तुझपे उँगली उठाऊँ  
 क्या लगती है तू मेरी, जो मैं तुझसे रुठा जाऊँ  
 क्यों रोके ना रुके मेरे कदम, जाना है तुझसे दूर,  
 पर बार-बार लौट तेरी ओर चला आऊँ।

कौन है तू, क्या रिश्ता है हमारा,  
 क्यों है अब तक साथ मेरे, मैं ठहरा बादल आवारा।  
 अनंत आसमान है ऊपर मेरे, बरसने को कितनी नदियाँ,  
 फिर भी टूटूं तो बरसूं तुझमें,  
 तू मेरी प्रिय जल की धारा।

क्यों ना माना जाये मुझसे रुख हवा का,  
 क्यों तेरी दिशा में उड़ा चला आऊँ।  
 क्यों देखूँ मैं तुझमें खुद को, क्यों तुझको ही सब बताऊँ।  
 कब से साथ लिखे थे हम, कब तक की हमारी कहानी है,  
 कितने जन्म का साथ है बाकी, कितने वर्ष की मनमानी है।

खुद का कोई ठिकाना नहीं, पर बनना है तेरा सहारा,  
 मैं ना जानूँ कोई सीमा, ना डरूँ किसी सागर से।  
 मैं आवारा बादल, और तू मेरी जल की धारा।

# संसार का स्पर्श

अगर ये दुनिया तेरी हाथों के तरह गर्म हो  
 जाए तो क्या बात...  
 कठोर संसार सारा तेरे दिल की तरह नर्म  
 हो जाए तो क्या बात...।

जैसे उसके लम्स से सर्द रातें सुकून पाती  
 हैं,  
 वैसे ही हर दिल को चैन मिलना चाहिए।  
 काश ये दुनिया तेरे हाथों-सी नरमी पा  
 जाए,  
 हर दर्द तेरे स्पर्श से मिटकर मुस्काए।

तेरी हँसी से ग़म के अंधेरे कट जाएं,  
 तेरे रव्याल से हर दिल में बहार बंट जाए।  
 तेरे लफजों की मिठास हर जर्ब को सहला  
 दे,  
 तेरी आँखों का समंदर हर दुख बहा ले।

जहाँ तू चले, वहां चाँदनी बिखर जाए,  
 तेरे कदमों पे खुदा भी दुआ बनकर उतर  
 आए।  
 काश ये जहा तेरे दिल सा हो सके,  
 जहां हर रिश्ता बिना शर्त संवर सके।

जहाँ नफरत की दीवारें तेरी सादगी से ढह  
 जाएं,  
 और मोहब्बत की नदियाँ तेरे लम्स से बह  
 जाएं।  
 मैंने उसके हाथों को छूते हुए बस ये चाहा,  
 सारी दुनिया को उसके जैसा एक इंसान  
 मिल जाए।

# धारा प्रवाह

एक शाम गोमती के तट पर बहता दिखा एक सुंदर जलयान,  
जिसे देख कर याद आ गया मुझे फिर से अपना युवान ।

डोल रही थी नदी के बीच वो छोटी-सी इक नौका,  
जैसे शोभित होते कुंतल जब चलता पवन का झाँका ।

उस कश्ती पे बैठा एक बूढ़ा नाविक, उसे यूं काबू में रख रहा था,  
जैसे मैं आज तक उसके सामने अपनी भावनाओं को ढक रहा था ।

वो अशांत जल, वो चंचल धारा, मुझे मेरे मन की याद दिलाते थे,  
वैसे ही जैसे मैं और मेरा हृदय, उससे मिलने एक बैचैनी के साथ जाते थे ।

गोमती के उस पार मंदिर में जलती हुई एक लौ , मुझे मेरी परिस्थिति बतालाती थी,  
बिन विभीषा के जीवन जीना जैसे वो मुझे सिखाती थी ।

कभी सोचता हूं, क्या मेरी आकांक्षा उस पार पहुंच भी पाएंगी ?  
या फिर नदी में बहती उस विहीन डाल की तरह जिम्मेदारियों तले दब जाएंगी ?

उस तरंगिणी का तीव्र बहाव , अविरल चलते समय की एक निशानी है,  
बस, मुझे एक बार अपनी इच्छाएं उस पार पहुंचानी है ।

वो आज भी है उसी नदी की तरह — पवित्र, चंचल और मनोहर,  
मैं वहीं हूँ, जो उसने मुझे बनाया है, केवल एक विचारक और दर्शक ।

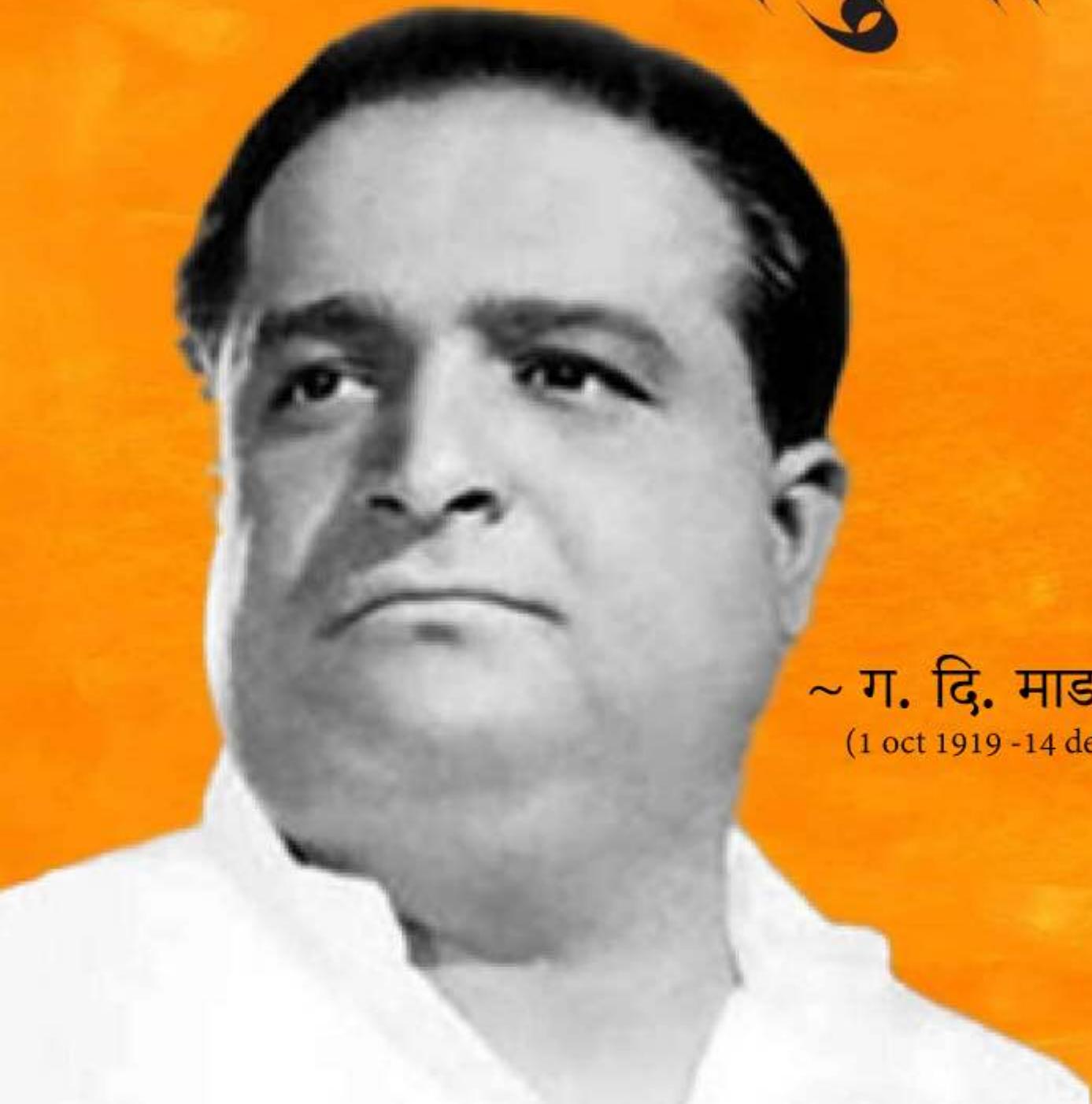
जो भी उतरा इस नदी में, विचार किया कि क्या पाया ? ?  
किसी को अनुभूत हुई पवित्रता, तो किसी के हाथ केवल पानी है आया ।

अनंत सिंह

इलेक्ट्रॉनिक्स एंड टेलीकम्युनिकेशन  
डिजाइनर-: सुयश पांडे



# महाद्वी अनुभाग



~ ग. दि. माडगूळकर  
(1 oct 1919 - 14 dec 1977)

महाराष्ट्राच्या लोकजीवनात सुगंधासारखा शिरलेला एक प्रतिभासंपन्न साहित्यिक, कलाकार, मराठी माणूस ज्यांना 'गदिमा' या लाडक्या नावाने ओळखतो, जवळच्या मित्रांचे 'अण्णा' तर आम्हा नातवंडांचे 'पपा आजोबा' अर्थातच गीतरामायणकार महाकवी ग.दि.माडगूळकर!.

गदिमांचा जन्म 'शेटफळे' या त्यांच्या आजोळी झाला तर बालपण अत्यंत गरीब व प्रतिकूल परिस्थिती मध्ये 'माडगुळे' या गावात गेले. गदिमांचे वडिल औंध संस्थानात कारकून होते, वयाच्या १६-१७ वर्षीं त्यांनी मराठी चित्रपट सृष्टीत प्रवेश केला सुरवातीला 'ब्रम्हचारी', 'ब्रॅडीची बाटली' सारख्या काही चित्रपटात सहाय्यक नटाच्या (Extra Artist) भूमिका केल्या. भक्त दामाजी (१९४२) व पहिला पाळणा (१९४२) चित्रपटात त्यांना प्रथम गीतलेखनाची संधी मिळाली, लोकशाहीर रामजोशी (१९४७) चित्रपटापासून खच्या अर्थाने 'कथा, पटकथा, संवाद, गीते ग.दि.माडगूळकर' असा ब्रॅड निर्माण झाला आणि बघता बघता माडगूळकर या नावाने मराठी चित्रपटसृष्टीत 'अनभिषक्त सम्राटपद' निर्माण केले. मराठी चित्रपटात 'कथाकार', 'पटकथाकार', 'संवादलेखक', 'गीतकार', 'अभिनेता', 'निर्माता' अशा सर्व क्षेत्रात त्यांनी वावर केला.

# बाबा

बाबा म्हणजे हिंमत, बाबा म्हणजे जोर,  
आयुष्याच्या प्रवासात असतो आधार घनघोर।  
शिस्त, मेहनत आणि स्वप्रांची धार,  
बाबांच्या शब्दांमध्ये असतो जीवनाचा सार।

बाबा म्हणजे खेळाचे पहिले मैदान,  
सायकल शिकताना धीर देणारा आवाज,  
आणि चुकांमधून शिकवणारा तोच कणखर अंदाज।

बाबा म्हणजे पहिली बँट, पहिला बॉल,  
हरलेल्या सामन्यात हसू टिकवणारी शक्ती,  
आणि जिंकलेल्या क्षणांना मिळणारी मौन स्वीकृती।

मुलांसाठी बाबा म्हणजे दोस्त आणि गुरु,  
त्यांच्या सावलीतच मिळतो जीवनाचा खरा गुरु।  
ते नसताना जाणवतो त्यांचा ठाम आधार,  
कारण बाबा म्हणजे कुटुंबाचा मजबूत किल्लेदार।

स्वतःच्या स्वप्रांना बाजूला ठेवून,  
ते बांधतात आमच्यासाठी उंच उड्डाणाचं मोकळं आभाळ।  
मुलांसाठी बाबा म्हणजे प्रेरणा आणि उजास,  
त्यांच्याशिवाय अपूर्ण वाटत हे संपूर्ण जगण्याचं भास।

-समिक्षा गायकवाड  
इलेक्ट्रॉनिक्स और टेलीकम्यूनिकेशन

डिजाइनर- आयुष वानखेडे



# संघर्ष, समतोल आणि भावना

ती उगवत्या सूर्याची किरण चेऊन येते,  
स्वप्राना सत्याचे रूप देत पुढे सरते.  
घर, संसार अन् जबाबदाऱ्या सोभाळते,  
तरीही आपल्या ओळखीचा शोध घेत राहते.

बालपणीची स्वप्रे आणि पालकांचा आधार,  
बालपणापासून तिला बळ देणारे हात,  
आईची माया, बाबाचे आधारभूत साध.  
शिक्षण, संस्कार अन् स्वप्राची शिदोरी,  
त्याच्याच प्रेरणेन उच उडते ही चिमणी.

डोळ्यात स्वप्रे आणि मनात जिहा,  
करिअर यडवायचे, समाजात एथान मिळवायचे.  
पण कृतेतरी मनात सतत सुसतो दिलार,  
“आई-बाबांना आमिगान वाटला दन भाड्या निर्णयाचा?”

शिक्षण घेताना संघर्ष मोठा होता,  
कधी टोमणे, कधी समाजाचा विरोध होता.  
नोकरी मिळवताना तिने लडा दिला,  
स्वतःच्या कर्तृत्वावर विश्वास ठेवला.

ऑफिसमध्ये टार्नट्रॅस, प्रेशर अन् स्पर्धा,  
कधी प्रशंसा, कधी अपमानाची वेदना.  
कधी मनात प्रश्न उमटतो,  
“हे सगळे करताना मी स्वतःला विसरत तर नाही ना?”



कामाच्या व्यापात स्वतःसाठी बेळव नाही,  
स्वतःच दुःखही व्यक्त करता येत नाही.  
कधी हृसूलावाव लागते,  
तर कधी ढोळ्यातेस पाणीही गिळाव लागते.

सकाळी घराची जबाबदारी घेते,  
मुलाच्या हृसन्या चेहऱ्यात आनंद शोधते.  
आई असते, पली असते, मुलगी असते,  
पण स्वतःसाठी कधी वेळ नसतो.

आफिसमध्ये काम, घरी संसार  
भावनाना दडवण्याचा एकच सुराव.  
कधी थकवा असतो, कधी मनात हुरहुर,  
पण चेहऱ्यावर सतत एक सुंदर हास्य !

कधी तरी मनात आठवणी दाटवात,  
आई-बालोज्या उवेसाठी होळे भरून येतात.  
“बाला म्हणायचे, तू खूप मोठ होशील,  
आई म्हणायची, तुला कधीच थकू देणार नाही !”

रात होते, चांदणे मंद प्रकाश टाकते,  
तरीही तिच्या ढोळ्यात नवी स्वप्न असतात.  
सकाळी पुन्हा ती नव्या जोमाने उभी राहते,  
कारण ती केवळ एक स्वी नाही, तर एक प्रेरणा असते !

# आयुष्म जगुयात समृद्धपणे

येणारे प्रत्येक नवीन वर्ष नवीन आशा बळून येते. प्रत्येक व्यक्ती वेत्या वर्षात स्वतःला अनेक जागासाठे बळून ते पाळण्याच्या निर्णय करतो परंतु जीवनाच्या घाब्यक्तीत आपण पुन्हा त्याच शर्यतीत आडकतो. आपले आयुष्म हे आपल्या निर्णयाचे प्रतिक्रिंब असते. संघर्ष प्रत्येकाच्या आयुष्मात होतो आणि स्वतःचे आत्मपरीक्षण करण्यासाठी तो इवाच हळू तितकाच महत्वाच.

‘आकाशी झोप चे रे’ या कविते मध्ये कवी जगालीला बेबुदकर यांनी पाखराला महणजेच माणसाच्या परावर्ती मनाला मोलाच्या उपदेश देला आहे-

“ कृष्णविष फळ ना मिळते तुज कळते परि ना वळते  
हुवयात व्यथा ही जळते का जीव विचार होई बावरा ”

“योग्या मोकळ्या व उव आकाशात झोप च्यावाची जासेल तर माणसाला कृष्णहून दुसरा मार्ग नाही. आपण जगतो ते आयुष्म योग्य दिशेने जगाणे हे फार महत्वाचे असते. इतर लोकांशी तुलना किंवा स्पर्श करण्याप्रवर्ती आपण स्वशी स्पर्श करावला हवी. स्व-स्पर्श हा जीवन बद्लणारा प्रवाह आहे. असे महणावात ‘सर्वोत्कृष्ट होण्यासाठी, स्पर्श करा; एक महान व्यक्तिहोण्यासाठी, सर्वोत्तमशी स्पर्श करा; पण जीवनात याचाची होण्यासाठी, स्वतःशी स्पर्श करा. जर तुम्ही इतरांशी स्पर्श केलीत तर तुम्ही जिंकू शकणार नाही. जर तुम्ही स्वतःशी स्पर्श केलीत तर तुम्ही नेहमी द्वागले बनून जिंकता ’.

“ व्यार्थ हे सारेच टाही , पक हे च्यानात राहो  
मूळ पोलादी जयाची , ही चरा गुसी तयाची ” वा संगीप खरे याच्या ओळी याचीच साक्ष देतात.

माणसाचा स्वभाव , त्याचे विचार त्याचे आयुष्म टरवतो. महणून नेहमी आपली संगत अशीच निवडावी जी आपले जगणे समृद्ध करू शकतात , त्याचे विचार आयुष्म जगण्याची गोग्य दिशा आपल्याला दाखवत राहतील.. ‘एकत्र्या सुईचा स्वभाव देखील योग्यपाय असतो. पण थागा सोबतीला असला की तोच स्वभाव एकमेकाना जोडणारा बनतो..’. आपल्या अवती-भवती अनेक गोष्टी असतात ज्या आपल्याला समृद्धीचा अनुभव देऊन जातात. सकळी उगवणाऱ्या सुर्याकडून प्रस्तर इयलाचक्ती या आनेद मिळतो , येता-जाता कानावर पढणारे पक्षांचे आवाज जगण्याची मधुरता शिकवून जातात , संगिरंगी फुले तर आपल्यासाठी कोणीही नसले तरी आपण सर्वांसाठी सारखाच मुऱ्यांच दरवळत जाऊ ही कल्पना मनाला सांगून जातात. समृद्ध हा सर्वांसाठी सारखाच असतो, काहीजण त्यालून मोती काढतात , काही मासे तर काहीजण फक्त आपले पाय ओले करतात. हे विश्व देखील सर्वांसाठी सारखेच आहे आपण त्यालून काय शिकतो हे महत्वाचे. उच्च आभाळात झोप वेणाऱ्या गळाला पाहून जीवन अस्याच नव्या उमेदाने जगण्याची आशा मनाला भिडते.

अंगणातील मुऱ्यांचा ताफा दरिद्रत्यावर त्याची लादचिकता , कायदामध्ये आणि स्व-संयटन या तीन गोष्टींचा बळावर वाटेत आलेल्या संकटावर न डगमगता एकत्रिलपणे सुसंयुक्त होऊन कसे काम करायला हवं द्याचा बोध घेता येतो. हे सर्व आनंदी क्षण टिपायला आपली नजर ही तेवढीच समृद्ध असायला हवी. त्या क्षणात आनंद झोडता यायला हवा. कारण सुख कणभर क्षणात दबलेले असते कुकत ते मन भरून जगता यायला हवं..

माणूस हतरांच्या दुःखामे दुर्जन होतो असे वरेच वेळा होते पण दुसऱ्याच्या सुखाने सुखी होतो असे मनसा होत नाही. संत कवीर यांचे एक दर्शन आपल्या जगण्यात जोपासण्यासाठेचे आहे - 'मन गया तो जाणे दे , मत जाणे दे शरीर , नाही खिची कमान तो काहासे छुटेगा तिर ', आपल्या मनाला वळणा लावायचे ते आपले आपणच प्रथलपूर्वक लावायला लागतात. सगळ्याना कुठे मिळतात नेहमीच फुले, घोडे काटे ही झेलण्याची क्षमता आपल्यात असायला हवी. मुळात शास्त्रत असे काहीच नसते काळाप्रमाणे बज्याच गोष्टी बदलतात , परिस्थिती बदलते , त्यातून मिळणाऱ्या चांगल्या व वाहेट अनुभवांमधून आपल्याला शिकता आले पाहिजे. जगणे समृद्ध करता आले पाहिजे.

" संपार दिवस निघून जातील , तो क्षण जपत राहू...  
परिस्थिती शिकवत जाईल , आपण शिकत राहू...  
वाटा गवसत जातील, आपण आनंद दिपत सहू...  
भेटा गरीक्षा घेत जातील , आपण क्षमता दाखवत राहू..."

-प्रा. प्रतिमा कदम

भारती विद्यापीठ कॉलेज ऑफ इंजिनीअरिंग

डिजाइनर - आयुष वानखेडे

# कुल्फी आणि सिंतहार्य....

एक अनुभव : वर्ष २०१२ मी नुकताच जॉब सोहून M.Tech साठी एका नामांकित कॉलेज मध्ये प्रवेश घेतला. रोज कॉलेज सूटल्वानंतर दुपारी घरी जाऊन पुन्हा सायंकाळी कॉलेज च्या कॅम्पस मध्ये मिळांसोबत फिरायला येणे हा नित्यनियम . कॅम्पस मध्ये एन्ट्री करताना बैंक गेट मधून जायचो (बैंक गेट म्हणजे मागाच्या बाजूचे गेट). बैंक गेट कायम कॉलेज च्या मुला मुलीनी गजबजालेले. त्यातच तिथे लहान मुले , आणि एक मध्यम वयाचा मनुष्य आणि त्याची महातारी आई दोघेही भीक मागायचे. (अजूनही दिसतात )लहान मुले कधी पैसे तर कधी कॉलेज च्या मुलाकडे साऊ मागायची, खूप वाईट वाटायचं आणि दया पण यायची. पण आपण यांच्यासाठी काही करू शकत नाही याच दुख वाटायचं. हे हस्त रोजांच झालेले.

एकदय नेहेमीप्रमाणे कॅम्पस मध्ये जायला निघालो, मिळ गायी गेलेले त्यामुळे आज माल एकटाच निघालो होतो, बैंक गेट ला सायंकाळी एक कुल्फी वाला त्याची गाडी लावून थांबलेला असायचा. आज मला पण कुल्फी खायची इथला झाली. किसा चेक केला , तर फक्त ५० रु. ची नोट होती. कुल्फी किंविता विचारले , तो म्हटले १५ रु. मी एक दे म्हटले , आणि कुल्फी आणि डरलेले पैसे घेतले आणि निघालो तोच एक ८-८ वर्षांचा मुलगा आला आणि मला कुल्फी मागू लागला , रोज बघून दया यायची पण स्वतःहून काही शायच धाढस झालं नव्हते. म्हणून त्याला हातातली कुल्फी दिली , तोच कुल्फी वाला ओरडला. "साहेब येऊ नका रोजांच आहे शांत , वास देण " पण माझ्यासाठी तो पहिलाच अनुभव होता. मी असुदे म्हटले आणि दुसरी कुल्फी घेताली , आता माझ्याकडे २० रु याहिले होते .

मी पुढे जाणार तेवढ्यात त्याच मुलाच्या वयाची , फ्रटके, मक्कलेले कपडे घातलेली एक मुलगी आसी आणि हात पुढे करून भीक मागू लागली, आधीच माझा स्वभाव हळवा , लगेच किंविता २ रु. काढले आणि तिच्या हातात टेकवले आणि पुढे निघालो पण ती रस्ता सोडेना. मग कळले तिळा पण कुल्फी हवीय, कुल्फी वाला छोके मोठे करून तिच्याकडे पाहूत होता आणि ओरडत होता , पण तिने मला जाऊ ना देण्याचा जणू चंग बांधला होता. मी आहे ती कुल्फी तिळा दिली आणि किसा एक करू लागलो , आता मात्र किंविता १८ रु. होते. पण मला हि कुल्फी खाण्याची तीव्र इथला झालेली, मी पण खूप हट्टी , अजून एक कुल्फी घेताली, कुल्फी वाला माल शून्य नजरेने माझ्याकडे पाहूत होता, जणू मनातल्या मनात मला मूर्ख म्हणत असाया.

माझ्या तोंडाला पाणी सुटलेले, आता कुल्फी येऊन कॅम्पस मध्ये निवांत बसून आस्वाद यायचा म्हणून मी कुल्फी घेऊन बैंक गेट मधून आत निघालो. बैंक गेट जरी २० फूट असलं तरी दोन्ही बाजूने फक्त २ फूट जागा आहे जाण्या येण्या साठी . मी एका बाजूने आत जाणार तोच पाय थांबले.

कोणीतरी माझे पाय घटू पकडले होते. अंगावर पक्कापक्की काटा उभा राहिला, काळजात थस्स झालेले, कारण एक ३-४ वर्षाच्या चिमुकलीने माझे पाय घटू पकडले होते, काही बोलता हे येत नव्हते तिला आणि मला अजिबात पुढे जाऊन देत नव्हती. तसा ढकलून जाण्याचा प्रवल सुद्धा केला, पण त्या चिमुकलीला ढकलून जायचे मन नाही झाले. शिशात ३ रु. होते ते देण्यासाठी हात पुढे केला तर तिने देण्यास नकार दिला आणि कुलफी कडे बोट दाखवू लागली. आता माल माझी पुरती गम्मत झाली होती, कारण तो कुलफी वाला अजून हि तसाच माझ्याकडे पाहुत होता. आता माल अजून एक कुलफी झायला सुद्धा माझ्याकडे पैसे नव्हते आणि मला पण खूप इच्छा झाली होती कुलफी खायची. पण त्या चिमुकली ला पाहून कुलफी खायची इच्छा कधीच निघून गेलेली. कारण मी तर माझ्या जिभेचे चोक्ते पुरवण्यासाठी कुलफी घेतली होती नि ती मुलगी इवल्याशया पोटाचे खळगे भरण्यासाठी कुलफी मागत होती.

एका श्वणाचाही विलंब ना करता तिच्या होक्यावरून हात फिरवला आणि तिसरी कुलफी त्या चिमुकलीच्या हातात टेकवली, तरी त्या मुलीने माझ्याकडे बघत एक स्मितहास्य केले आणि जोरात पळत सुटली. मी फक्त तिच्याकडे आणि तिच्या त्या हसण्याकडे बघत राहिलो. आता माझी कुलफी खायची इच्छा कधीच निघून गेली होती, शिशात राहिलेले ३ रु हातात चेठन त्या कुलफी वाल्याकडे बघत पुन्हा वरच्या शिशात ठेऊन दिले आणि ३ कुलफी खाल्याच्या अविर्भावात नृपतुं ठेऊन, काढा फुगवून कॅम्पस मध्ये एटी केली.

देवा बंगला गाडी काही नसले तरी चालेल पण अश्या चिमुकल्यांना २ वेळ च पोटभर मिळावू हीच तुळ्याकडे प्रार्थना.

आम्ही एक माणस म्हणून वेळ मिळेल तेच्हा आमचे योगदान देण्याचा प्रवल करूच.

अन्नदान अभ्युक्त हे कर ते तेच्हा कळले, त्या मुलांचे हास्य बघून हजार कुलफी खाऊन ठेवर दिल्यासारके वाटले.

अजूनही तो दिवस आठवला तर चेहून्यावर एक अदूत स्मितहास्य येऊन गुरुगुर्वा कळून जात.

मिळानो वातून फक्त घरकच सांगणे होत, आपण हि वेळ मिळेल तेच्हा असा ठेकन देऊन बघाच.

-प्रागजानन भोळे

माहिती तंत्रज्ञान विभाग

डिजाइनर - आयुष वानखेडे

# आठवणीतले साहेब.....

श्री णकि दत्तर २०१०-११ भारती विधायीठाचे अभियांत्रकि महाविधिलय, कोहापूर  
आहे इंजीनीरिंग या शाखेयांचे वर्षात शाकित होतो. शावटचे वर्ष हट्यावर  
कॉलेज जीर्ण मनापासन

एंजींय कर्यापद्धतीचालन होत, पोरटस वीक जानेवार २०११  
मध्येझाला, खुप  
दंगा केला. ठरवायामाणे आता फेवार  
मध्येमत गैंदरगीं ची  
तयार वाल  
झाल आणि अचानक नरिय आला किंगिंदरगीं या वर्षी घेतलेजाऊन  
नाह.  
सगळेनाराज, यात आहे शावटयो वर्षाला यामळु  
तर खुपच  
वाईट वाटले.  
२ दिवसानंतर आहे ठरवलंकारी आता आपयाक डेफूत एकच मारग आहे गैंदरंग  
करयाचा आणि तो हणजे आमचेसाहेब.  
आहे सगयांनी काहह कन साहेबांना भेटायचं ठरवलं, पण क

ठेभेटायचंकस  
जायचंकळत नहते.  
तवयाते एक आठवयानंतर नरिय मलिला की साहेब कोहापूर  
या सरकटि  
हाऊस मध्ये आज संयाकाळी येणार आहेत.  
आहे सगळेजण सरकटि हाऊस ला जाऊन थांबलो. साहेब आयानंतर  
थोयावेळा आहे तपिपोहचलो  
थोडा वेळ थांबयानंतर एक आवाज आला....  
\*अरेती मल

का थांबयात तथि, इकडेयारे,  
कायॉलेम आहे, का आलाय ?  
कॉलेज ची मल  
हणजेकरिकोळ विषय असणार हेयाना कळलं, पण  
आमयासाठ गैंदरगीं हणजे खुप  
मोठा विषय.  
"आह बोललो, साहेब गैंदरगीं कॅसल झालय, कारण काह कळलंनाह, फत  
गैंदरगीं होणार नाह हणन  
एवढच सांगतिलं."  
आहाला वाटलंसाहेब हा विषय खुप  
सहज घेतील पण तस झालंनाह





एक लाडका नेता आणि एका संथेचेक

लप्ती यांना मलायावरु  
कर्ती म होत हे  
यांया पदद्व  
वायावन कळले.  
साहेब आहाला पांबा हटले आणि साहेबांचे पदचु  
संभाषण जसेया तसेअसेहोते.  
“अरेया आपया इजानीरगि कॉलेज या बाना फोन लाव रे..  
हा मैडम अहो ती कॉलेज ची मल

आलेत आपया तहु  
गैंदरंग कॅसल कॅलाय  
हणे, अहो तेकारण काह असो मलाना  
नाराज नाह करायचे,  
मला कारण नकोय, थोडयात या पण याच.  
फोन कट.”  
बाळांनो बनिधात जा होतंय तमचं

गैंदरंगि.  
तथिआमया सगयांची वचिरपसू  
केल आणि नितर आह तथिन

नघिलो  
दसया दविशी सकाळी कॉलेज मध्येगैंदरंगि चेटायमटेबल डलिहोत. “हा  
साहेबांचा शद होता.  
“साहेबांबदल आदर खुपच  
वाढला होता”  
या दविशीच साहेबांनी आमया मनात एक अमय

अशी जागा कैल होती.  
छोया छोया गोट सधा एक्या तपरतने आणि आपलकन

“सोडवणारे साहेब  
आज नाहत पण अया अनेक आठवणीतन  
साहेब तहु,  
आमया मनात कायम  
आहात..

-परा. गजानन भोळे  
मोहती तंत्रज्ञान वभिगा  
डिजिइनर - आयुष बानखेडे



# भेट ... आठवणींच्या वाटेवरची

कधी तूही भेट ना रे मला स्वतःशीच भेटवायला.  
 आठवणींचा पसारा सावरायला,  
 थाळी रेस्टॉरंट मध्ये मनसोक्त जेवायला.  
 लो कॅलरीज लो सुगर चॉईस म्हणून ताक प्यायला !

नकोच भेटू कधी आठवणींचा पाऊस पाडायला !!  
 माझ्या मनोहर दुनियेतून मला बाहेर काढायला.  
 नको ना रे कधीही भेटू  
 सृती वृक्षाला पालवी फुटण्याच कारण बनायला.

कधी तरी भेटशील का रे पुन्हा थंडीत आयसीई-क्रीम खायला ?  
 रस्त्यावर ८० च्या स्पीड नी गाडी चालवायला ?  
 Tiffin मध्ये काय आणलय हे विचारायला ?  
 मला नीट घरी जा हे सांगायला ?

परंतु...

चुकून कधी भेटण्याची इच्छा झालीच तर नक्कीच भेट,  
 मनातला काही सांगायचं राहून गेल असेल तर  
 आवर्जुन भेट,  
 आजीवन सुंदर आठवणीत राहतील असे क्षण द्यायला  
 तर नक्कीच भेट,  
 मनातला असलेला राग दूर करायला लवकरच भेट,  
 माझा मनातला थेट मलाच विचारण योग्य वाटत  
 असेल तरीही भेट,  
 आपल्या energy च गुप्तित उलगडले तर सांगायला  
 नक्की भेट,

ह्या दुनियेच्या रिती रिवाजांच्या पलिकडचे कनेक्शन  
 अनुभवायला भेट,  
 कोवळ्या-हळव्या गोष्टींनी आयुष्य जगायच-जपायच  
 कोड उलगडलं तर प्रकर्षणे भेट,  
 माझ्यात तू नेहमीच असणार आहेस ह्यात शंकाच  
 नाही,

तुझ्यात हि माझा छोटासा देखील अंश अनुभवलास  
 तरी अंतर्मनाने भेट,  
 अखेरच्या श्वासापर्यंत कुठल्याही रूपाने कारणाने

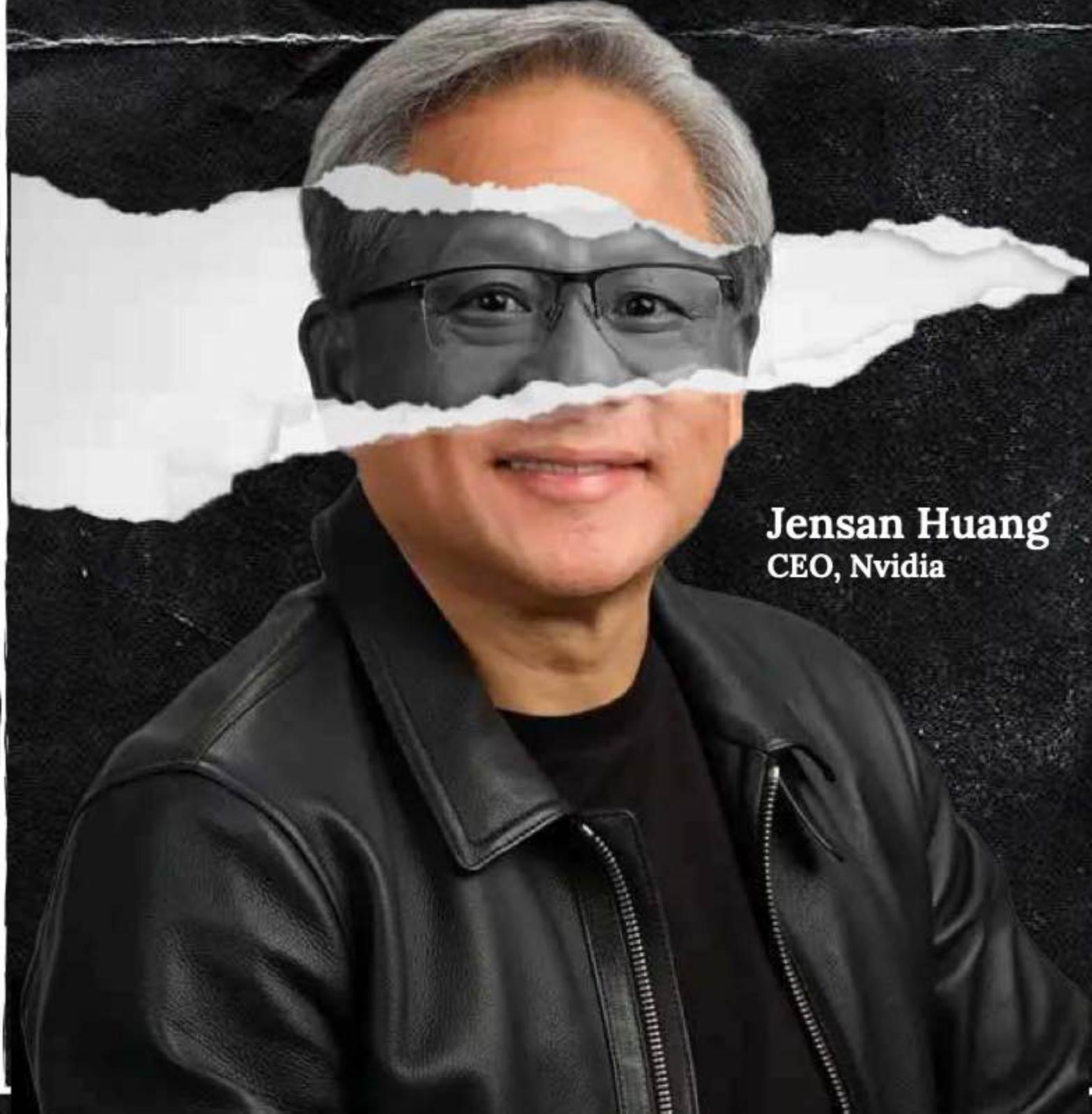
-प्रणोति कविमंदन

Department of CSBS

डिजिइनर - आयुष वानखेडे



# TECHNICAL SECTION



**Jensen Huang**  
CEO, Nvidia

# Jensen Huang: The Visionary Leader Driving NVIDIA's AI Transformation

Jensen Huang, the co-founder and CEO of NVIDIA, has been instrumental in establishing the company as a frontrunner in artificial intelligence and computing. Originally concentrating on gaming graphics, NVIDIA has since expanded its influence into sectors such as AI, healthcare, and autonomous driving technologies. Born in Taiwan in 1963, Huang relocated to the United States during his childhood. He obtained a degree in electrical engineering from Oregon State University and later earned a master's degree from Stanford University. While pursuing his studies, he worked in restaurant kitchens and depended on scholarships to finance his education, successfully navigating financial hardships. In 1993, Huang, along with Chris Malachowsky and Curtis Priem, co-founded NVIDIA, initially targeting the gaming GPU market. The company encountered financial challenges and skepticism from investors in its formative years. The launch of the GeForce 256 in 1999 marked a significant turning point in graphics technology, while the introduction of CUDA in 2006 allowed GPUs to facilitate AI and scientific research. Under Huang's guidance, NVIDIA emerged as a pivotal entity in the realm of deep learning. Despite facing competition and technological uncertainties, he steered NVIDIA towards a position of AI leadership. His foresight in recognizing emerging trends has established him as one of the most significant figures in the technology sector today. Jensen Huang's evolution from an immigrant to a technology innovator exemplifies his vision and determination. By overcoming financial obstacles and business challenges, he has propelled NVIDIA to redefine the landscape of computing and artificial intelligence, leaving an enduring influence across various industries.



# Delta Time:

## The time stone in gaming

How many times have you booted up your favorite video game only for it to lag into oblivion, or how many times have you bought a new game to check its benchmarks, and it gives you an abysmal frame rate? All of this happens due to something called 'Delta Time' in video games. Recall your 10th grade physics class, you must have studied that delta signifies the change in quantity. For example, delta speed signifies the change in speed over a quantity like time.



$$\text{Acceleration} = \Delta v / \Delta t$$

Hence we can say that delta time is the time elapsed between two frames

$$\Delta t = \text{current time} - \text{previous time}$$

Or

the reciprocal of the time taken to render one frame (Frame Rate)

$$\Delta t = 1 / (\text{Frames per second})$$

How does this affect our games though? An interesting question the answer to which is that delta time dictates the time dependent quantity of any object in the game. Now imagine you have a software that runs at 50 frames per second so one frame would take 1/50th of a second to render hence the delta time is 0.02 seconds. Now this delta is to be multiplied by the speed of the object since speed is time dependent. Say we have a car that runs at 20 units per second except we can not measure speed in time in games we calculate it in frames. In essence, if we say the speed is 20 units per frame the car will move 20 units in one frame. For a 60 Frames Per Second (FPS) software the car will move  $20 * 60 = 1200$  units in one second and for 10 FPS games it will be 600 units. Confused? Don't be, just think of it in the sense that if you have a high FPS the car will move faster than if you have low frame rates. The following picture and it demonstrates it perfectly, both the snails have the exact magnitude of speed hard coded in the engine; the speed however, is dependent on frame rate.





This should not be an issue for a single player game, mostly; but imagine, you are playing an online racing game. Your opponent is running it at 60 FPS, and you are at 30 FPS. Imagine you both are using the same car at the same acceleration and velocity; your opponent will blaze past you at a multiple of 60 while you will be crawling at 30. Unfair, isn't it?

Here's another example, imagine you're grinding a match of FIFA with your online friend at 30 FPS and the guy is playing at 60 FPS. This means that his software checks for any physics logic (for example collision) 60 times a second and your rig will only update the physics logic 30 times a second. This would mean that if he kicks the ball at your goal the ball will fly past the goalkeeper and he won't be able to catch it even if he's standing in the way. This is because before the CPU checks if the ball is colliding with the goalkeeper the ball would have already flown past his body. Now you are standing there with the controller in your hand imagining if only someone could make everything uniform across varying frame rates. Worry not though, delta time is here to save the day. It is a good time to mention that delta time changes dynamically over frame rates. In essence, if the computer suddenly goes down to 10 FPS the delta time would then go to  $1/10 = 0.1$  seconds. If you multiply the delta time to the rate of change of any object, `car.position += 10 * Time.deltaTime;` Where 10 is our desired velocity. Multiplying delta time (seconds/frame) cancels out the frame rate (frames/second) to basically nullify any effect of frame rate on perceived velocity.

Since delta time changes constantly it always keeps the speed consistent. Good gracious! delta time is such a life saver for game developers; but what about game designers? Can delta time be useful to them as well? Is there a way a game designer can make use of delta time to implement a feature? The answer is yes.

So now we know that delta time helps things run smoothly across different devices but what will happen if we increase or decrease it? If we were to say multiply delta time with 2 and then multiply it with the speed.

```
car.position += 10 * (Time.deltaTime * 2);
```

The speed will be uniform across devices and be doubled, in essence the speed of the car should now be 20 units/seconds, recall that only the speed of the car has been increased the speed of the camera and everything around it is still the same.





We can also divide the delta time to have it at half the intended speed while keeping everything the same. This would mean my character and world will slow down and my camera movements will remain unaffected. If you have played games like Max Payne or Prince of Persia you would know that this is known as 'bullet time'.

By changing delta time I can now modify any movement in my game scene. While modern games don't exactly use delta time to achieve this they still have a similar mechanic for this called internal time scale or time dilation (not to be confused with the physics phenomenon). As all things are, even delta time has vices; the infamous lag in offline games is a direct consequence of our hero. When we say that a game runs at a low frame rate it is noticed that the game runs choppy, like a badly shot movie. Since the game is trying to maintain the speed consistent the game appears to 'skip' frames. Let's use an example of our car again, say we have a very low framerate of 2 FPS. The car is expected to move a full 20 units in a single frame, in the first frame the car will be at the starting point say 0 as soon as the next frame is rendered the car will jump to 20. It would look like the car teleported between frames, this would not be an issue at a higher frame rate since the car will have more frames to animate the movement. At a larger scale the whole game looks choppy and laggy, if we were to remove delta time at low frame rates the game would run smoothly but look as if it is running in slow motion (recall how scaling delta time down slows the whole game).



A unique game that uses this to its advantage is Child of Light, the game runs in 'slow-mo' when running at low frame rates; the game is not very physics heavy, so the designers chose to prioritize presentation to have a smoother gameplay than to be framerate independent.

# AI:

## *Transformer of Humans or Terminator of the Race*

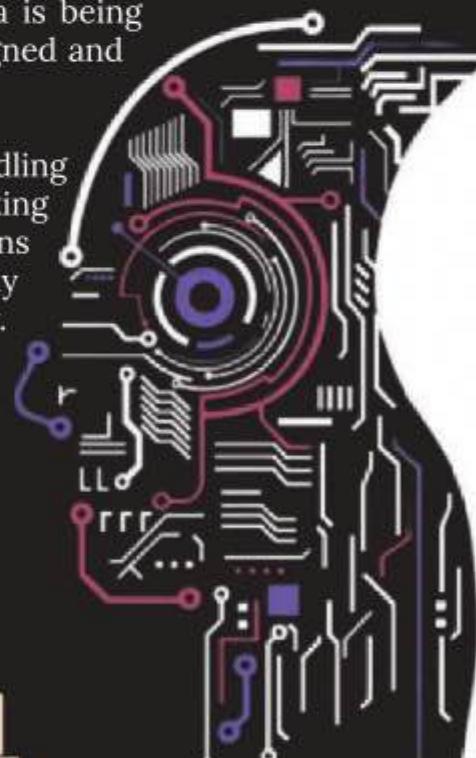
*"AI is likely to be the best or worst thing to happen to humanity."*

*~ Sir Stephen Hawking*

Artificial intelligence is one of those technologies that is not only revolutionizing a particular field but also has immense potential to impact various other sectors, such as healthcare, agriculture, the military, stock markets, education, and more. Just like ,in the era of industrialisation, oil had escalated the growth of many countries and still led wars and thrashed economies, it made everyone realize that any resourceful thing may significantly contribute to the growth of a nation, but on the other hand, if it goes into the wrong hands, then it is destined to be fatal.

If we see how AI shapes our daily lives & impacts our psychological temperament,beginning with the most important thing, "Smartphones". When we open any app, either its an e-commerce, some social media app, or a newsletter, it is observed that the suggestion pages for these applications always recalibrate; which means your data is being recorded, patterns are being noticed, recommendations are designed and strategically shown to you. This is only a single aspect of AI.

On the brighter side though, deep learning and ML are used in handling traffic congestion in tier one cities, spotting the potholes, and tracking pollution to organise cities in a better manner. It also has applications in the sectors like agriculture, we use it to predict the advent of any weather uncertainties and soil testing and groundwater availability. Concluding from these examples we can see that AI is just not limited to the service sector or IT industries, it has a substantial impact on all of human civilization.



Recently IIT Kharagpur, in collaboration with AIIMS Delhi, researched and found a way out to detect cancer and tumor inside the human body by just sharing data from the previous tumor & cancer patients to decipher its size, blood contents and its behavioral impact on other body parts. This led to a study about cancer and other similar anomalies in the human body using AI, which will not only fast forward the detection of such fatal medical problems but will reduce the overall cost of treatment by reducing the number of tests done. In the longer term it will help us eliminate diseases of similar kind in the future.

Now as we have seen many positive overturning aspects of AI, we need to acknowledge that some problems have also arisen. Like the most famous one is "AI will take away the jobs of humans". Also, there is a rise in deep fake images and adult contents, majorly targeting women and celebrities, which are not only affecting the self-respect of these people but also has the potential to trigger a war. Many of such deep fake videos were made using Prime ministers and presidents of two rival nations commenting on the sensitive issues of conflict.

So, AI definitely has helped us grow, but if not used properly, it will affect the whole of humanity. So many groups of nations like NATO, G7, G21, QUAD, SCO, AUKUS, etc. are likely to implement AI regulations with stringent laws to utilize it for the global good rather than for any particular nation's interests to establish harmony and world order.



Lastly, what matters for us the most is our country; USA and China have started leveraging AI for research and other fields while India lags behind on account of unskilled labour despite having a larger population.



# MICE IN MATRIX: The virtual reality



Through computer modeling and simulation, virtual reality (VR) allows users to engage with a synthetic three-dimensional (3-D) visual or another sensory world. VR apps use interactive devices that can be worn as goggles, headsets, gloves, or body suits to send and receive information and immerse the user in a computer-generated environment that mimics reality.

"Virtual" refers to something that is in essence or effect but not actually or in fact, this definition was introduced in the middle of the fourteenth century, referring to something that is "not physically existing but made to appear by software" concerning computers, the term "virtual" has been in use since 1959.

## History of Virtual Reality

The phrase "virtual reality" was coined in 1958 in the theater. Since its introduction in the 1970s, Myron Krueger's term "artificial reality" has been in use. With the introduction of more reasonably priced second-generation (transistor) and third-generation (integrated circuit) computers, the focus shifted to ways that computing could enhance human potential instead of merely replacing it in specialized fields that facilitated computation. A professor of psychoacoustics at the Massachusetts Institute of Technology (MIT) in 1960, Joseph Licklider proposed the idea of a "man-computer symbiosis" and applied psychological concepts to interfaces and interactions between humans and computers. He maintained that the combined power of the human brain and computers would be greater than either one working alone.



## HOW DOES VR WORKS?

A user sees animated visuals of a simulated environment while donning a headgear equipped with a stereoscopic screen in a conventional VR format. Motion sensors detect the user's motions and modify the display on the screen to match, typically in real time. This creates the illusion of "being there". As a result, a user can explore a virtual suite of rooms and see shifting vantage points and views that logically correspond to his own head movements and gait. The user can even pick up and move objects he sees in the virtual world by donning data gloves fitted with force-feedback devices that simulate touch.



The way we encounter digital information has been completely transformed by the developments in VR technology. The Meta Quest and other VR headsets have been instrumental in augmenting the immersive experience. With the help of these headsets' 360-degree views, sharp displays, and potent CPUs, users can enter virtual environments with a higher level of realism. The development of VR technology is being driven by the ongoing advancements in optics, screens, and CPUs, which are expanding the potential applications of VR. As technology advances, we might expect more improvements in display performance, usability, and affordability. To enhance the intelligence and interaction of virtual worlds and make them more responsive and realistic, artificial intelligence will be included in VR experiences. With ongoing research and development, we may anticipate notable advancements in VR technology that will impact the future of digital experiences.



## ADVANCEMENTS IN VR

Given the recent developments in technological aspects, Dombeck and his team wondered if they might make VR glasses that more closely resembled the actual world. They created tiny goggles with custom-made lenses and tiny organic light-emitting diode (OLED) displays.

These tiny goggles with the most realistic features gave rise to The Miniature Rodent Stereo Illumination VR (iMRSIV). It is a device that consists of two displays and two lenses, one for each side of the head. It allows for three-dimensional vision by independently lighting each eye. Unlike VR eyewear for humans, the iMRSIV (pronounced "immersive") technology does not completely enclose the mouse's head. Instead, the goggles are firmly positioned in front of the mouse's face and secured to the experimental setup. Since the mouse runs in place on a treadmill, the goggles continue to cover its field of vision.



John Issa, co-first author of the paper and postdoctoral fellow in Dombeck's group, stated, "We designed and built a custom holder for the goggles." The screens and lenses that make up the entire optical display surround the mouse. After mapping the mice's brains, Dombeck and his associates found that the activation patterns in the brains of the goggle-wearing mice were very similar to those of animals with unlimited movement. In side-by-side comparisons, the researchers also discovered that mice donning goggles interacted with the scene considerably more quickly than mice using traditional VR systems.

Dombeck discovered that compared to the animals in the previous training circumstances, the mice with the spectacles learned more quickly. "They managed to finish the homework following the first session. They knew where to look for opportunities to obtain rewards and where to run. We believe that since they can interact with the environment more naturally, they might not need as much teaching." The National Institutes of Health (award number R01-MH101297), the National Science Foundation (grant number ECCS-1835389), the Hartwell Foundation, and the Brain and Behavior Research Foundation all provided funding for the study, "Full field-of-view virtual reality goggles for mice."

In conclusion, the future of virtual reality seems quite bright. Meta Quest and other advances in virtual reality technologies are pushing the boundaries of realism and immersion. Virtual reality (VR) has the potential to revolutionize a variety of sectors, including education, training, gaming, and entertainment.

"Virtual reality doesn't just transport us to new worlds; it transforms the way we perceive and interact with reality, unlocking infinite possibilities within the boundless realm of imagination."

**Shanya Srivastava**

ECE VI SEM

Designed by: Veer Sharma



# QUANTUM TELEPORTATION

Quantum Teleportation, the field where sci-fi dreams of beaming up meets the quirky reality of entangled particles whispering secrets across the cosmos. While we're not quite ready to teleport your pizza or send Elon to Mars, Quantum Teleportation is making waves by transferring the State of a particle without physically moving it, like sending a snap of a quantum selfie that deletes itself after opening. It's mindbending, Einstein approved this weirdness that's paving the way for non-hackable communication and quantum networks. So, buckle up by leaving the chatter of Marvel v/s DC, because in the quantum world, it's not about where you are, but how you are at that position and trust me, it's as confusing as it sounds!!!

So let's delve into understanding, "What is Quantum Teleportation?" It comprises two words, i.e., Quantum and Teleportation. Quantum refers to the smallest possible separate unit of any physical property, such as energy. Quantum systems express unique properties such as superposition, entanglement, and wave-particle duality, which differentiates them from classical systems.



Teleportation is commonly understood as a method for transportation from point A to B in fractions of second, without physically moving the object in space. However, in Quantum Teleportation, only Quantum information is transmitted from point A to B, not physical objects. Quantum teleportation is a process that allows the transfer of a quantum state from one particle, i.e., a photon, electron, or an atom to another distant particle without physically moving the original particle. This process depends on Quantum Entanglement. So, you all might be wondering what a Quantum Entanglement is..?

Quantum Entanglement is a phenomenon in which two or more Quantum Particles become mutually related to each other in such a way that the state of one particle instantly affects the state of the other particle, regardless of the distance among them. Long story short, Quantum Teleportation is nothing like the teleportation shown in sci-fi movies or comics... Instead it is basically transfer of smallest particle of an object, i.e., Quanta, from initial destination to final destination without transferring the physical object. Many experimentations have been performed by researchers on Quantum Teleportation and they have shown a huge success rate in showcasing the ability to teleport quantum information over larger and distant spaces using entangled photons. A photon refers to a massless and uncharged particle that represents the quantum of electromagnetic radiation such as light waves. Experiments on Quantum Teleportation also include achievements like teleporting Quantum Bits across fiber optic networks spanning several kilometres, and even through satellites, covering distances of over 1200 kilometres. It's a huge leap forward in making quantum communication networks a real-world possibility.

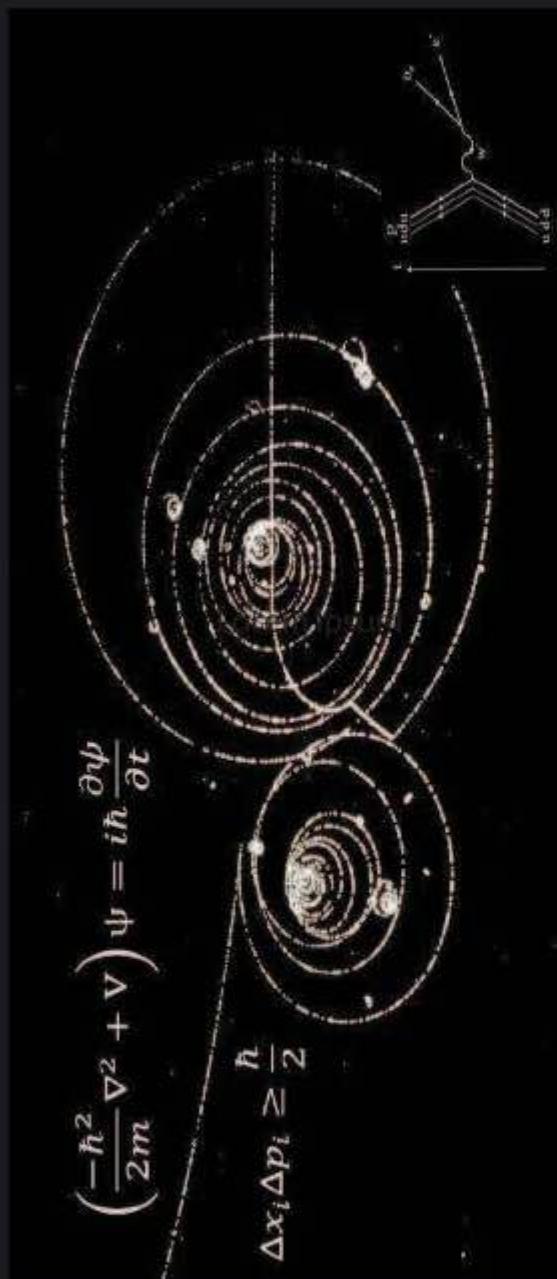
The first successful demonstration of Quantum Teleportation was led by Anton Zeilinger in 1997. It is considered one of the most groundbreaking and exceptional experiments in the field of Quantum Physics. This experiment took place at the University of Vienna, capital city of Austria and it was the first time scientists were able to teleport the Quantum State of a particle (photon) to another, distant photon using the principle of Quantum Entanglement. The core of the experiment relied on Quantum Entanglement. Unlike the teleportation in sci-fi movies, no physical object was transported. Instead, the quantum state of a particle was transferred from one photon to another, making this a transfer of information rather than matter. Thus, making it a pioneering moment in the field of Quantum Teleportation, which motivated other researchers to pursue and develop transfer of data through Quantum Communication Network and opening doors for other vital progress in the field of Quantum Physics. One of the most significant milestones in Quantum Teleportation occurred in 2017 when researchers in China, led by 'Jian-Wei Pan' at the University of Science and Technology of China, achieved Quantum Teleportation over a distance of 1200 kilometres using a satellite.



This breakthrough was massive for several reasons, such that it showcased that Quantum Entanglement could be maintained across vast distances, that too in space. This generated the idea for 'Global Quantum Communication Network', which paved the path for ultra secured communication which is non hackable and helps in maintaining privacy over communication through data transfer. Just imagine sending data to your friend who is chilling on a Spacecraft, knowing that any attempt to intercept the data is instantly detectable. The chapter of Quantum Research was progressing like a Bullet Train. And, in 2022 a collaborative effort between MIT and Caltech produced a breakthrough in improving the fidelity of Quantum Teleportation. Fidelity tells us about the purity of Quantum State with reference to its original state before it was teleported. It basically compares the Quantum State of the particle teleported, after the teleportation, with the Quantum State of the same particle before teleportation.



Due to the small size of Quantum Systems, errors often creep in; they mostly occur as a result of noise, interference or imperfections in the equipment.



The way Quantum Technology is progressing in our day to day life, we must be aware of the long lost research and hardships of the researchers who made Quantum Physics easy and ready to be applied across the globe. This groundbreaking phenomenon of Quantum Communication must be celebrated as it is now a building block for future communication. It is just a breakthrough in networking and transfer of data which could possibly shape the future in building an advanced communication network, which would not limit itself to our globe but to distant planets as well. It could pave the way towards interplanetary communication. The success of these researches must be celebrated without any boundaries of nations but as a success of entire humanity. It can shape the future of our reality to something more advanced and ground-breaking. As Quantum Teleportation continues to break the barriers, its potential applications are nothing short of revolutionary. From ultrasecure quantum communication networks to advancements in quantum computing, this technology is setting the foundation for a future where information transfer is instantaneous and immune to cyber threats. While we are not ready to be stepping into any teleportation booths anytime soon, the rapid progress in this field is bringing us closer to an era where quantum mechanics reshapes the very fabric of technology and reality. So, the next time you hear about entangled particles whispering secrets across the universe, remember, this isn't just sci-fi anymore. It's the Quantum future, unfolding before our eyes.

# Europa and The Clipper:

## A New Dawn of Space Exploration

*"All these worlds are yours except Europa. Attempt no landing there."*

- From 2010: *Odyssey Two* by Arthur C. Clarke



The solar system is our galactic home, crafted into perfection by celestial forces, and is full of science and history. From the mysterious ice giants lingering frigidly by the Kuiper belt to the toxic clouds of Venus spewing sulphuric clouds, it is a plethora of fascinating phenomena. Today, though, we shall focus on the biggest brother of this family Jupiter and its moon, Europa. It is not unreasonable to ask why such an insignificant moon should be the centre of attention. Perhaps we should focus on Triton, Neptune's largest moon and a potential dwarf planet eternally bound to revolve around the distant ice giant. We can also focus on Saturn's rings, which were formed by destruction and chaos. Or perhaps we should focus on Pluto, who we mercilessly cast away from the category of planets almost two decades ago. Why then are we paying attention to this inconspicuous moon of Jupiter? The reason is that Europa has the ultimate ability to conceivably host life. However, in that case, wouldn't Mars be a better candidate? We have mapped the surface of Mars in better detail than our own oceans! We have sent many machines to its surface to capture data, and we know it has liquid water! Furthermore, Jupiter receives about four percent of the sunlight relative to us, compared to fifty percent (approx.) that the red planet gets and yet in October 2024, NASA sent its most advanced mission to hunt for alien life in space to Europa. The intention with which this was done, hides a vivid tapestry of astrophysics and sheer human curiosity. In this article, we shall explore Europa and the Clipper and see how humanity has entered a new dawn of space exploration.

It would be a wise notion to first understand the standing with which we see Europa. It is the sixth-largest moon in the solar system and the smallest of the four Galilean moons, which Galileo Galilei discovered in 1610. It is the second innermost Galilean moon to Jupiter and is sixth overall, giving it the apt name of Jupiter II. What scientists have found interesting about Europa is that it lacks a quality present in most moons—craters. Europa has a smooth, mix of white & reddish brown patterned surface with dark streaks & cracks. It hides a masterful display of exogeology. This is one conclusion we will reach further into the article, where we will understand why it is so. The problem with flying to Europa is Jupiter itself, as the gas giant kills everything around it.



Decades ago, when the Voyager and Galileo missions flew past Jupiter, they transmitted some incorrect data, sent the wrong commands, and even corrupted some data. The reason for these perilous conditions inherently begins within the core of Jupiter, where the pressure is so high that hydrogen is believed to have taken the form of a metallic liquid. This induces a magnetic field that is 20,000 times the size of our own planet's magnetic field if we look at both from the same distance. If Jupiter's magnetic field were visible here from Earth, it would have looked twice as big as the full moon. While this magnetic field is harmless on its own, Jupiter's powerful gravity is strong enough to cause tectonic activity on its Galilean moons, and Io, the innermost of them, feels it the most. The volcanoes on Io shoot particles of sulphur into space, which get ionised by the strong magnetic field. It expands further as the particulates pull it back. A tonne of these particles travel through the magnetic field every second, and this field is stretched beyond moons like Europa and Ganymede. This is a death sentence for electronics, for even with modern shielding technology, they can last no more than three months in these conditions. How then will the Europa Clipper orbit Europa and collect data? Well, it won't. The Clipper will only orbit Jupiter from afar and make timed swoops by Europa to collect data before swooping out again. It will collect data using a mass spectrometer and use the downtime to send it to Earth. The Clipper will do 49 such flybys, mapping almost the entire surface of Europa.

Now we know that there is a deadly amount of radiation in the Jupiter system. A person standing on Europa would get hit with 5400 mSv per day, as compared to the Earth's three mSv per year, and would die in mere hours! This again begs the question as to why Europa is our next hope of finding alien life. Ironically, this perilous radiation is the reason why life is conceivable on Europa. It begins with the appearance of the moon. The reddish-brown lines on the surface of Europa resemble many things, like hydrated salts, sulphuric acid, or even bacteria. An experiment performed at NASA's Jet Propulsion Laboratory found that sea salt, when heated at high temperatures, turns into the same reddish-brown colour, and this leads scientists to believe that there might be a saltwater ocean inside Europa that's about 100 km deep. That's twice as much water as on Earth, and that it must be driving geological activity that smoothens out and renews the surface.

In order to have liquid water inside the planet, there needs to be heat, which prevents it from turning into ice. The problem, though, is that the Jupiter system receives only four percent of the sunlight that we do. How else would liquid water receive heat to maintain that state? The answer to this question pertains to Europa's orbit. Io, Europa, and Ganymede orbit in resonance, meaning that for every orbit Ganymede makes, Europa makes two and Io makes four! Thus, Europa gets pulled inward by Io on one side of the orbit and gets pulled outward by Ganymede on the other, making its orbit more eccentric. In this eccentric orbit, one side is closer to Jupiter while the other is farther away. Jupiter's gravity is stronger in the former, and this orbiting results in Europa being stretched and squeezed periodically, thus heating its core and ensuring that the subsurface ocean remains liquid.

But what evidence do we have that there indeed is an ocean under the icy surface? In its absence, the deflection observed in Europa's orbit caused by the stretching and squeezing would only be a degree, but if there is an ocean, it would be over 30 degrees. This is something we hope to find through the gravity data. Now, in order to understand how thick the icy crust is, we must again look at Europa's surface. A pattern of arcuate lines is observed, which resembles a cycloid. This is an unusual sight on an icy moon, and we think these exist because of the propagation of cracks on the surface due to Europa squeezing in an orbit around Jupiter. If there was no ocean under the icy surface, these cracks would not have been observed due to the low deflection as mentioned before. This entire phenomenon is called tidal flexing, and it pushes magma up from the outer core to the seafloor. Water flowing up through the crust is heated, and it picks up minerals, ejecting them into the ocean. This results in hydrothermal vents, and on Earth, they are oases of life living hundreds of meters in the ocean without sunlight. Organisms here rely on unique bacteria and feed off of the minerals in the vents. We hope to see the same on Europa, and while we will not see fish or whales, we hope to see single-celled organisms. In fact, we were so terrified of the prospect of contamination that in 2003, we deliberately crashed the Galileo mission into Jupiter.

Now let us endeavour to understand how we shall take samples of Europa's subsurface ocean. As we cannot drill through the thick icy crust, we have to find a different mechanism. You must know about the whales that roam our oceans. They resurface for air and breathe through their blowholes. Scientists have used drones to fly through the mucus being blown out to collect data about the whale's biology. The same strategy will be applied to Europa. We have captured images of water geysers shooting out of Enceladus, a moon of Saturn, which also houses a subsurface ocean. The Hubble Space Telescope has picked up evidence of what could be similar water geysers on Europa. The aim is to fly the Clipper through these plumes in an effort to collect the sample and study it using the mass spectrometer.

But even after all of this, the evidence of a subsurface ocean on Europa seems inconclusive. On the other hand, we have photographed the plumes on Enceladus and have even flown through them. We are almost entirely certain that Enceladus has a subsurface ocean. Then why is it not a better candidate compared to Europa? Scientists believe that Enceladus is currently in a rather preliminary stage as compared to Europa, which has had about four billion years to reach a stage where it can potentially host alien life. Furthermore, the bombardment of Jupiter's radiation makes Europa a better candidate because the high-speed molecules colliding on Europa's surface give water and carbon dioxide molecules energy to form hydrogen peroxide or formaldehyde. The Clipper has an infrared spectrometer to map out where the salts are by looking at chemical fingerprints of light that will bounce off the surface and an ultraviolet spectrograph to look for potential plumes. Europa will eventually be imaged entirely at better than 100 meters per pixel, and swaths of such images will be taken, thereby mapping out the entire moon. This will happen through a wide-angle camera. A narrow-angle camera will capture half-meter-per-pixel images from 50 km altitude.

Interestingly, the Europa Clipper will not be the only mission to study Jupiter's moons, as the European Space Agency's Jupiter Icy Moon Explorer (JUICE) mission would come to the system north of a year after Clipper, even doing a few flybys of Europa before settling into tight orbits around Ganymede. This presents an opportunity for the two space agencies to collaborate on their findings in the Jupiter system and enrich our understanding of the cosmos even further, for after all, collaboration is vital to scientific pursuit. We will start seeing distant observations as we look at Europa from afar and search for plumes in 2030, and the first high resolution shall be seen the following year. That is a long wait for us right now, but it is a worthwhile one at that.

For the foreseeable future, we shall abide by Arthur C. Clarke's warning to attempt no landing on Europa, but there will come a time in humanity's pursuit of nourishing its curiosity where the unimaginable becomes the convention, and convention becomes antiquity. Space shall eternally be inexhaustible of wonder and mystery, and our efforts to comprehend it shall eventually lead us to a new dawn of space exploration. As we try and fail, and fail and try, giving up shall never be an option, no matter the hurdles.

With that, I thank you profoundly for reading this piece, and I hope that my pursuit in lighting the curiosity for the beyond has been a successful endeavour

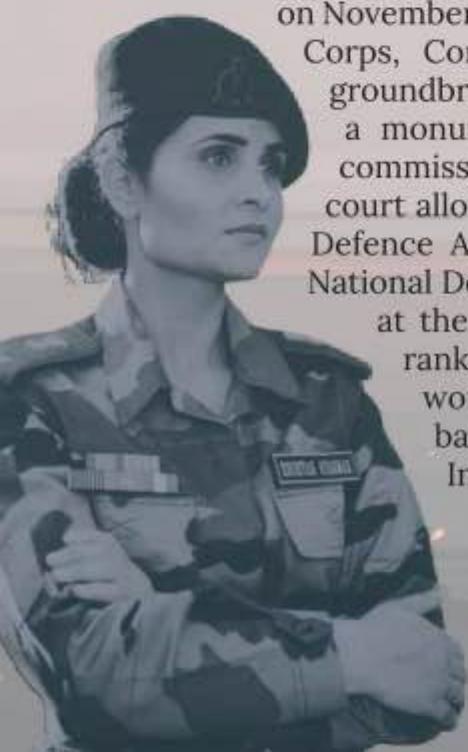
# **Breaking shackles of status quo: Women redefining roles in Armed forces**

“Women are the largest untapped reservoir of talent in the world.”

— Hillary Clinton

In context to the armed forces of our country, especially after the invasion of the British people, the situation was depicted as such that the battlefield was a realm exclusively for men, where courage was measured in brute strength and leadership was a test of dominance. Women were apparently perfect for roles that required empathy and care, far away from the fields that resonated with words like courage, valour and command. The bar for entry and survival in the armed forces wasn't just high; rather it was doubly scrutinized for women, with their every step under the observation of critics questioning their endurance and strength. They were often met with skepticism about their abilities to handle combat, lead units, or endure gruelling military training. Also, in Indian society, where traditional gender roles are deeply rooted, a woman in uniform symbolizes rebellion. Entering uncharted territory, women had very few role models & icons to look upon. If women serve in combat roles and get captured during an operation, becoming Prisoners of War (POWs), the unfathomable torture they might have to endure becomes a significant concern. In Indian culture, women are respected as embodiments of Goddess Saraswati, Lakshmi, Parvati and more, which adds a cultural and emotional dimension to the situation. No matter how hauntingly these colossal walls of obstacles stood. The women of our nation are overcoming them, setting examples, becoming role models for others & “breaking shackles” of societal norms. They are not just competing with their male counterparts; they are redefining excellence by setting new standards and benchmarks.

The Indian Army's Medical Corps was the first military institution to appoint female troops as on November 1st, 1958 but over the years, women started serving in Army Education Corps, Corps of Signals, Intelligence Corps, and Corps of Engineer. The groundbreaking decision made by the supreme court on 17th Feb, 2020 brought a monumental change by directing the government to grant permanent commission to women officers in the Indian army. In August, 2021, the Supreme court allowed female candidates to sit in the prestigious exam for the National Defence Academy. The pioneering batch of 19 female candidates joined the National Defence Academy as cadets in June, 2022. By entering the armed forces at the foundational level, women are now positioned to rise through the ranks and take on commanding and strategic roles. The induction of women as Agniveers under the Agnipath Scheme led to the first-ever batch of women sailors in the Indian Navy, women Agniveer Vayus in the Indian Air Force.



The Indian Army inducted its first batch of women soldiers into the Corps of Military Police. On January 26, 2024, India's 75th Republic Day Parade showcased a historic display of 'Nari Shakti'. For the first time, an all-women tri-service contingent comprising the Army, Navy, and Air Force, an all-women contingent from the CAPF, Armed Forces Medical Services, a BSF mahila brass band & Delhi Police all-women band marched together displaying true capabilities of women.

This inclusion of women in the armed forces wasn't achieved overnight. It was the result of years of fervent dedication from women who forged their path by making sacrifices in their personal lives & devoting every energy of their being into serving the nation selflessly.

Some of the pioneers include Captain Lakshmi Sahgal, a prominent figure during India's freedom struggle. She served as the commander of the Women's Regiment of the Indian National Army (INA) during World War II. Commander (Dr.) Vijaya Pandit, the first woman medical officer to serve in the Indian Navy in 1992. Wing Commander Durga Banerjee, the first woman officer to be inducted into the fighter stream of the Indian Air Force in 1999. She was also the first Indian woman commercial pilot. Surgeon Vice Admiral (Lieutenant General) Punita Arora PVSM, SM, VSM, the first woman in the Indian Armed Forces to be promoted to a Three-star rank. She held the ranks of Lieutenant General in the Indian Army and Vice Admiral in the Indian Navy. Air Marshal Padma Bandopadhyay, PVSM, AVSM, VSM, PHS, the highest-ranking female officer in the history of the Indian Air Force. She was the first woman to be promoted to the rank of Air Marshal and was a decorated flight surgeon in the Indian Air Force. She was the second woman in the Indian Armed Forces to be promoted to a three-star rank.



These officers are the living examples of the saying, "if you can dream it, then you can do it". Their legacy is not just a fleeting moment in history, it is an unshakable foundation built on sacrifices, struggles, blood, sweat, and tears, one that no government, community, or counterpart can ever erase. Each name tells a tale of grit and glory, and for every example mentioned here, there are countless more. To recount all their achievements would be an endless endeavour. From shattering stereotypes to commanding battalions, from taking charge in the face of adversity to redefining leadership, these women have come a long way, paving a path for others to follow and igniting a spark in the hearts of countless women who aspire to don the uniform & the serve the nation with pride.

# The Remarkable Journey of Sridhar Vembu:

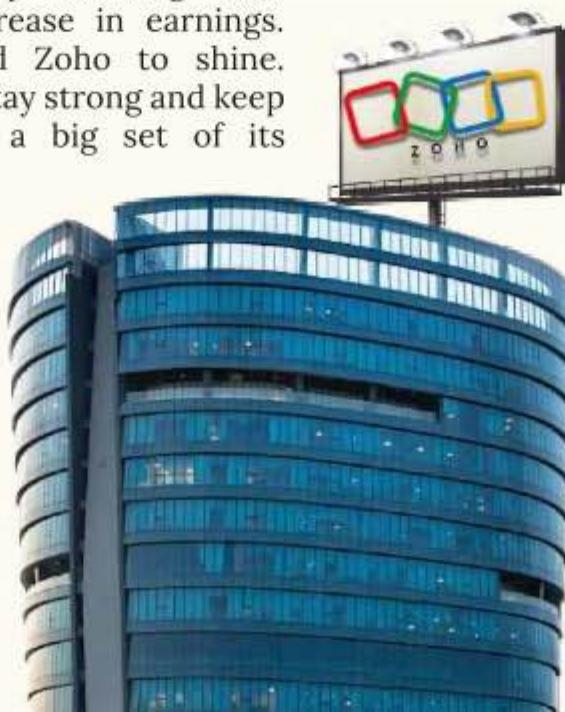
## How Zoho Thrived as a Bootstrapped Tech Company

We recognize Sridhar Vembu as the visionary founder of Zoho Corporation, but his story isn't a simple one. It has quite a turn to it and a beginning different than expected. Surprisingly, Sridhar was not a part of Zoho's origins. The company, which was originally called AdventNet, was founded in 1996 by his brothers, Kumar Vembu and Shekhar Vembu, along with Tony Thomas. At the time, Kumar and Shekhar were working from their home in Chennai, while Tony managed the US operations.

Sridhar, meanwhile, was pursuing a career in the US after completing his PhD at Princeton. It wasn't until 1997, when Tony, during a visit to a Las Vegas trade show, asked Sridhar for help in recruiting sales personnel, that his involvement began. Sridhar himself offered to take care of the sales. He left his office armed with a newly printed business card bearing the title "VP of Marketing and Business Development, Advent Network Management, a decision that proved to be pivotal, initiating Sridhar's tenure at Zoho.

Initially, the company had a clear demarcation of roles: the Indian branch focused on R&D and product development, while Sridhar decided to handle sales in the US. However, the journey to success was far from easy. AdventNet was trying to fit in a highly competitive market, and their survival demanded continuous innovation. The founding team chose to reinvest all revenue back into developing their flagship product, Web NMS. In fact, they did not take salaries themselves. It was only in 1998 when sales crossed the \$1 million mark that they began taking salaries and later on, hired a dedicated sales team.

By 2000, Sridhar officially became the CEO of Zoho Corporation. His leadership and vision had a major impact on Zoho's rise to global prominence. Unlike rivals who depended on venture capital or buyouts to grow, Sridhar took a unique approach. His team focused on growing from within by creating new products in-house while maintaining a steady increase in earnings. This dedication to long-term growth helped Zoho to shine. Sridhar's journey also shows how crucial it is to stay strong and keep going when things get tough. When Zoho lost a big set of its customers during the dot-com crash, Sridhar didn't give up on their goals. Instead, under the stress, Zoho focused their energy into putting their energy into products, to meet what their customers needed in a shifting market. This helped Zoho weather the storm but also set the stage for its success in the years that followed.



Today, it emerged from what was only a company to manage a network as a complete operating solution of a business with more than 40 applications, over 10,000 employees, and 60 million users worldwide. Zoho's journey is a testament to Sridhar Vembu's belief in building world-class products from India.

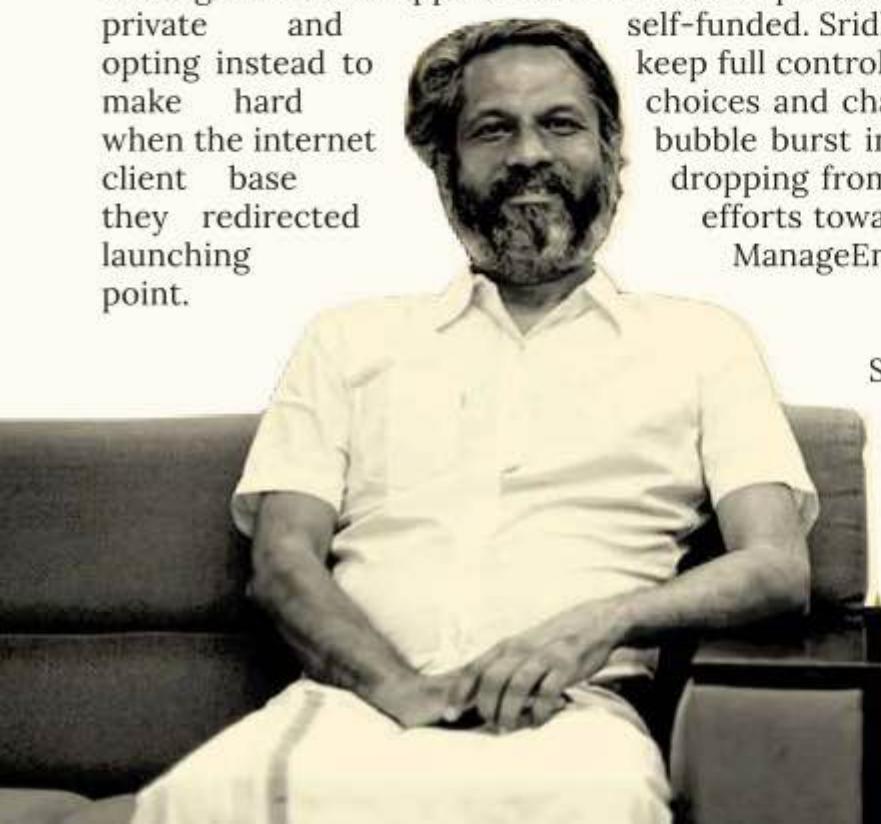
One of the key reasons for Zoho's success is Sridhar's philosophy about bootstrapping. He has famously said that the journey of bootstrapping starts from "year minus five" instead of "year zero". This, he said, is an investment in learning products being built, teams being assembled, and customers being acquired. Sridhar has stated many times that no business school can teach entrepreneurship as effectively as the real world can.

He accepts that mistakes are an inevitable part of the journey to building a successful business. Reflecting on his own journey, Sridhar shared how he spent 10 to 15 lakh rupees of his own money on ideas that never took off. Yet, these setbacks were stepping stones in shaping his understanding of business. He learned that scaling a business demands long-term thinking and persistence. While some companies hit the jackpot overnight, most of them, usually, take years of consistent growth with proper development of talent, company culture, and leadership skills. Commitment to innovation has been the driving force behind Zoho's ability to offer applications in over 40 sectors across industries comprehensively. Zoho's method for growing its staff plays a key role in its wins. At first, the founders including Sridhar trained their initial 100 workers themselves, setting up the firm's strong work spirit and base of the company. Even now, Zoho puts a lot of money into its people, going as far as hiring teens fresh out of high school and teaching them how to code themselves.

This shows the Company's belief that workers are a vital part in any company's success. The way Zoho grew also shows why it's smart to start small and zero in one area. Their first big product, Web NMS, served the business in IoT market and still brings in cash today. The company only grew bigger after it got stable in this niche, launching ManageEngine and then making a full set of apps. One of the most impressive parts of its story is how it chose to stay private and opting instead to make hard choices when the internet client base they redirected launching point.

self-funded. Sridhar said no to many offers from investors to keep full control of the company. This freedom lets them make choices and change course when needed. For example, during the dot-com bubble burst in 2001, Zoho hit a rough patch, with its stock price dropping from 150 to just three. Instead of panicking, Sridhar focused efforts towards developing new products, ultimately launching ManageEngine. This turned out to be a turning point.

Sridhar's decision to prioritize customers and employees over investors is a principle he holds firmly. "What is good for investors is not necessarily good for customers or employees".



This is a philosophy Sridhar believes in and has helped Zoho maintain its integrity and focus on creating value. His choice to avoid taking funding from outside investors plays a big role in Zoho's success. While many see venture capital as an essential to grow a business, Sridhar chose a different path. He put profits back into the company making sure Zoho grew in a way that would last and have a strong money base. This choice has helped Zoho stay free to make its own choices and put money into tech and people for the long haul—two things that have been the key to its ongoing success. Now, Zoho shows how business owners can build great companies without outside money. Sridhar Vembu's strong beliefs, plans for the future, and trust in growing bit by bit have not only made Zoho a hit around the world but also fired up many business owners everywhere. This incredible journey reminds us that with grit, a clear vision, and a commitment to values, it is possible to achieve remarkable success, even in the most competitive markets.

In conclusion, this journey with Zoho by Sridhar Vembu brings forth a powerful reminder of what entrepreneurs can achieve when they remain committed to their vision, invest in people, and focus on long-term success rather than short-term gains. Witnessing the growth of Zoho from a small network management company into a global leader in business solutions really speaks about the power of perseverance and resilience in a clear mind, which settles only on what matters the most.



# Overview of Cryptography and RSA

## Abstract

From ancient methods to complex current algorithms the subject of safeguarding communication or cryptography has grown enormously. The RSA algorithm a significant development in asymmetric encryption is the subject of this research articles examination of the principles of cryptography. First an introduction of the historical context and fundamental procedures like transposition and substitution ciphers is presented [1 pp. [12-15]. After that the essay digs into contemporary cryptographic approaches pointing out the switch from symmetric key algorithms such as DES and AES to more secure asymmetric key algorithms [1 pp. [28-30]. In-depth treatment is provided to the RSA technique which depends on the computing challenges associated with factoring large numbers for its key generation encryption and decryption operations [1 pp. (36-45). Its significance in the digital era is emphasized by the multiple ways that RSA is used to safeguard cryptocurrency transactions digital signatures and internet communications.

## INTRODUCTION

The science of safeguarding communication known as cryptography has grown tremendously over ages ranging from antiquated procedures to complicated contemporary algorithms. Sensitive information was historically protected using cryptographic techniques like substitution and transposition ciphers. Despite being new at the time these early systems provided minimal security and were soon superseded by more sophisticated ones as digital computers grew more popular. Digital communication security has been substantially improved by the development of contemporary cryptographic approaches such as symmetric and asymmetric key algorithms. Of them Ron Rivest Adi Shamir and Leonard Adleman's 1977 introduction of the RSA algorithm stands out as a seminal development in asymmetric encryption. This research investigates the RSA algorithm in detail and covers the basic principles of cryptography emphasizing its usefulness in protecting modern digital communications.

## Historical Context and Fundamentals of Cryptography:

The history of cryptography dates back to the ancient societies who employed it to encrypt communications in both peace and war. Transition and transposition ciphers were among the early methods which provided only mediocre security despite being novel at the time. Since the invention of computers cryptography has grown stronger and more sophisticated. Substitution Ciphers: One of the first types of encryption substitution ciphers substitute a different letter for each one in the plaintext. Julius Caesar is well-known for employing the Caesar Cipher a straightforward substitution cipher in which every letter in the plain text is moved a predetermined number of positions down the alphabet [1 p. 12].



## Modern Cryptographic Techniques

More complex cryptography approaches have arisen as a result of the development of digital computers. The same key is used for both encryption and decryption in symmetric key algorithms like DES (Data Encryption Standard) and AES (Advanced Encryption Standard). But these algorithms have problems handling and distributing keys which has led to the creation of asymmetric key algorithms [1 p. [28]].

Using a single key for both encryption and decryption symmetric key cryptography leverages symmetric key methods. The confidentiality of the key dictates how secure these algorithms are. One of the early symmetric algorithms DES was widely used until increases in computing power led to its final designation as insecure [1 p. 29]. Now the industry standard for symmetric encryption AES succeeds DES in terms of security and is utilized

### The RSA Algorithm

Developed by Ron Rivest, Adi Shamir, and Leonard Adleman in 1977, the RSA algorithm revolutionized cryptography by introducing the concept of asymmetric encryption. RSA uses two keys – a public key for encryption and a private key for decryption, thus solving the problem of secure key distribution inherent in symmetric key algorithms.

**Key Generation:** RSA key generation involves several steps:

1. Choose two distinct prime numbers,  $\langle p \rangle$  and  $\langle q \rangle$ .
2. Compute  $\langle n \rangle$ :  $\langle n = pq \rangle$ . The value of  $\langle n \rangle$  is used as the modulus for both the public and private keys [1, p. 37].
3. Compute Euler's totient function:  $\langle \phi(n) = (p-1)(q-1) \rangle$  [1, p. 38].
4. Choose an integer  $\langle e \rangle$  such that  $\langle 1 < e < \phi(n) \rangle$  and  $\langle \gcd(e, \phi(n)) = 1 \rangle$ ;  $\langle e \rangle$  is the public key exponent [1, p. 39].
5. Determine  $\langle d \rangle$  as  $\langle d \equiv e^{-1} (\text{mod } \phi(n)) \rangle$ ;  $\langle d \rangle$  is the private key exponent [1, p. 40].

The pair  $\langle (e, n) \rangle$  forms the public key, and  $\langle (d, n) \rangle$  forms the private key.

### Encryption and Decryption:

- To encrypt a message  $\langle M \rangle$ , the sender computes the ciphertext  $\langle C \rangle$  using the public key:  $\langle C \equiv M^e \pmod{\phi(n)} \rangle$  [1, p. 41].
- To decrypt the ciphertext  $\langle C \rangle$ , the receiver computes the original message  $\langle M \rangle$  using the private key:  $\langle M \equiv C^d \pmod{\phi(n)} \rangle$  [1, p. 42]. Security of RSA: The security of RSA relies on the practical difficulty of factoring the large composite number  $\langle n \rangle$  into its prime factors  $\langle p \rangle$  and  $\langle q \rangle$ . Despite advances in computational power, factoring large integers remains a computationally intensive task, making RSA a robust cryptographic system [1,

## Applications and Implications

Digital signatures Bitcoin transactions and SSL/TLS protocols are just a few of the internet connections that are routinely safeguarded with RSA. In the digital age the algorithm is essential because it can enable both confidentiality and authentication [1 p. [47]].

**SSL/TLS Protocols:** To create secure communications across the internet these protocols leverage RSA. RSA is vital to the encryption of data exchanged between your browser and the web server when you visit a website that uses HTTPS [1 p. 48].

**Digital Signatures:** RSA is also used to produce digital signatures which validate a message or documents integrity and validity. By doing this it is ensured that the data is real and has not been tampered with [1 p. 49].

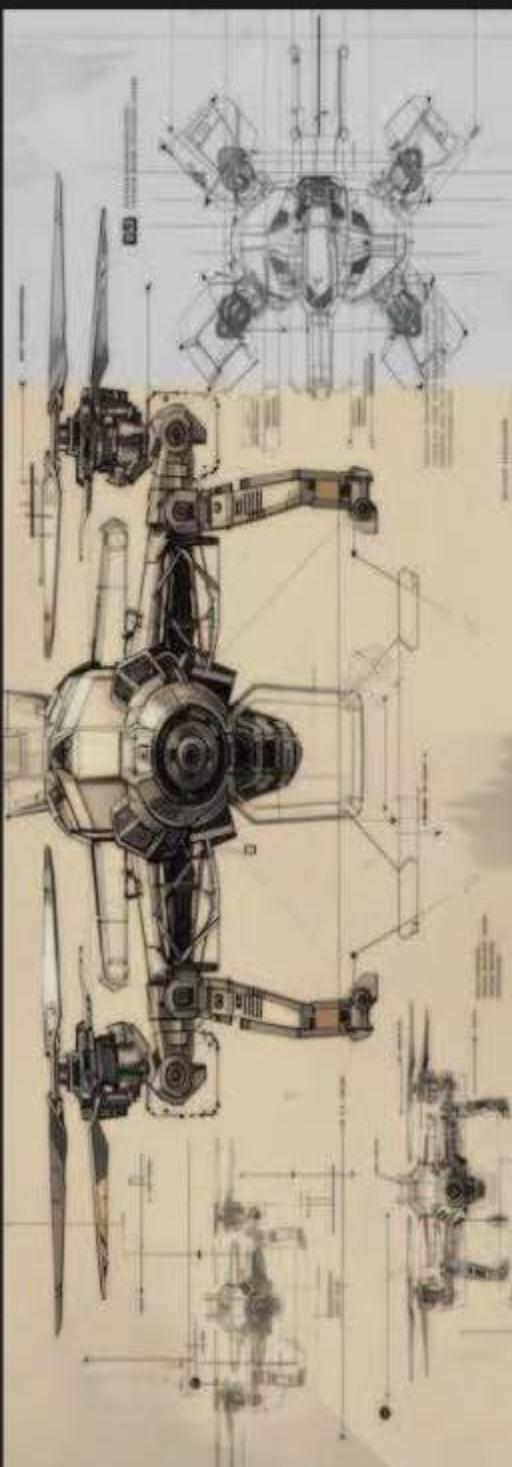
Digital asset safety is assured in the sphere of cryptocurrency through the employment of RSA algorithms for transaction security and wallet management [1 p. 50].

## Conclusion

Cryptography, with its rich history and evolving techniques, plays a crucial role in protecting information in our interconnected world. The RSA algorithm stands out as a pivotal development, providing a secure means of encryption and decryption through its innovative use of asymmetric keys. As technology continues to advance, the principles of cryptography will remain essential in safeguarding our digital communications.

# Technological Leap in Defence Forces: Shaping the Future of Warfare

*"As we look at the stars, space is no longer the final frontier; it is the new battleground."*



The defence forces stand at the crossroads of an epochal shift in a fast-changing world dominated by information technology. It's not a physical fight, but a question of strategic intelligence, decision-making on data-driven grounds, and high-tech operations. This itself clarifies how states adjust to the complexities and dynamics of modern security landscapes. Innovations such as AI and space technology transform defence and redefine the rules of engagement, preparing nations for the reality of modern warfare. Defence strategies with cutting-edge AI and space technology represent intentional acts at deterring aggression and swift, decisive responses in a volatile, interconnected global environment. Maybe the most important innovation regarding transformation of defence forces is artificial intelligence (AI). It is a routine for modern-day AI systems to scan humongous data sets for predicting enemy moves recommending optimum strategies, and decision-making in split seconds. Such capacities, once the stuff of imagination, are now turning into realities and influencing present-day defence activities. For instance, AI-driven drones would do deep surveillance of enemy territories without risking human lives. Their applications stretch beyond logistics, communication, and autonomous combat as well. Allied Market Research claims the global military AI market will touch USD 18.82 billion by 2025. It further accentuates AI with national security importance. This can now happen due to AI, where the nation influences the adversary's morale by shaping the digital narrative or getting lost in its very own strategic initiatives through deep analysis of the pertinent data.

Psychological and information warfare are now a part of war, and AI gives them campaigns that exploit social vulnerabilities and perceptions. Cyber warfare was also born in the conflicts of the modern era and thus opened a new dimension to national security. In the modern battlefield, cyberspace is becoming more important as it

transcends borders and cripples critical infrastructure, disrupts economies, and destabilises societies. The strategies in defence systems are the advanced threat detection and mitigation systems. These were found to be as vital as they could become after the 2021 SolarWinds cyberattack, which proved vulnerable to even one of the most robust of networks. Better cybersecurity is the need of the hour these days. Anyways, in today's times, cyber and information warfare have just turned out to be another side of the same coin, and an adversary would simply resort to circulating false information as well as distortions for public perception manipulation. Just as it often outsmarts brute force, so control over data and narratives wins peace.

Another revolutionary technology that does change the defence space is UAVs. The UAVs completely transform reconnaissance, logistics, and combat with only unprecedented precision, efficiency, and flexibility. Precise strikes minimise collateral damage and the safety of personnel. Evidence of this was demonstrated in the 2020 Nagorno-Karabakh war, as Azerbaijan's drones overwhelmed traditional defences. Swarm technology makes multiple UAVs cooperate to execute coordinated manoeuvres and further enhances operational efficiency. The global UAV market is projected to be about \$58.4 billion by 2026, driven forward by the ever-growing defence applications. These technologies point very clearly towards the transformative role of autonomous systems in redefining combat dynamics and expanding the operational envelopes of military forces in action. What once was the last frontier, space has finally emerged as the prime domain in the strategic calculus for the nations.

For instance, high-end satellite systems offer real-time intelligence, facilitate the communication networks of the armed forces, and ensure precision navigation with missile defence. Therefore, with space-based technologies, nations can leverage critical national security capabilities across increasingly contested domains. Such multipurpose examples of space explorations include scientific research integrated as strategic objectives across India's Chandrayaan and Gaganyaan missions.

*"As we look at the stars, space is no longer the final frontier; it is the new battleground."*



In 2021, the global space economy was estimated to be \$469 billion and is further on an increase as more nations infer their requirements in terms of space-based The contour of the new battlefield in the name of satellite-based early warning systems, debris monitoring, and weapons in space has started taking place; however, such space militarisation has to be assured only through defence. international cooperation coupled with a law framework that brings about the proper use of sustainable and peaceful management. Atmanirbhar Bharat, during which India emphasised on self-sufficiency through its defence technology and the outcome of the Defence Research and Development Organisation. A few are indigenous innovations, including the Tejas fighter aircraft and the BrahMos supersonic



cruise missile. A growing technological capability in India committed to strategic autonomy. Defence spending—India ranked third up to 2023, according to SIPRI, having spent \$76.6 billion on it. The reason behind this is less dependency on imported technology, appropriate economic growth in the form of research and development, and the flourishing of indigenous industries offering an opportunity like a homegrown solution; however, rapid growth in defence-related technology causes some disadvantages. The foremost issues are created by the huge expenses that are incurred in developing them, and problems related to ethics with autonomous weapons as well as misuse of technology are possible. This kind of highly skilled manpower, combined with gigantic investments in education and training, is needed to develop AI and advanced systems. More importantly, the psychological impact on combatants and civilians reflects long-term societal impact. Furthermore, these attacks on the use of AI result in breaking the social trust. In summary, advanced technology usage is one of those paradigms that have been noticed with a change in approach from countries toward security and warfare. It ranges from AI-based decision-making to space-based intelligence and thus gives expression to an unstoppable drive towards making national security more resilient and stronger. Such issues, with this kind of problem, would have to balance innovative technology with the responsibilities in an ethical and moral sense by the policymaker and the defence planner. These shall create a world that becomes very fast in making nations safe and powerful amidst high uncertainty.

**“Technology can be a double-edged sword—it has the potential to either protect or harm, depending on who wields it.”**

# INSIGHTS FROM THE INCHARGE



**Dr. Pramod Jadhav**  
*Bhartiyam Incharge*

As the in-charge of Bhartiyam 2025, the annual techno-cultural fest of Bharati Vidyapeeth College of Engineering, Pune, I want to express my heartfelt gratitude to all the teams and departments that made this event a massive success.

This wouldn't have been possible without the dedication, teamwork, and enthusiasm of our students and faculty, who came together to create an unforgettable experience. A special thanks to our amazing team of volunteers—the real backbone of this event. Their hard work and passion ensured everything ran smoothly, making Bhartiyam 2025 a truly seamless and enjoyable celebration. It was an honor to lead such a talented and committed group.

To all the students, faculty, staff, and guests—your presence added energy and excitement, making this fest even more special. As we look back at what we achieved together, let this be a reminder of how powerful teamwork and shared creativity can be.

Thank you all for fueling this retro-futuristic journey and making Bhartiyam 2025 a true synthwave phenomenon—one that will echo in our memories like a timeless beat.



# INSIGHTS FROM THE INCHARGE



**Dr. Kuldeep Patil**  
*Bhartiyam Incharge*

Bhartiyam 2025 was not just an event; it was a celebration of creativity, technology, and teamwork. Seeing our college come together to make this fest a success has been truly inspiring.

The dedication, enthusiasm, and hard work of our students and faculty turned this vision into reality, creating an unforgettable experience for everyone involved. A special thanks to our incredible volunteers, whose efforts ensured that everything ran smoothly. Their passion and commitment were the driving force behind the success of this fest, making it a seamless and enjoyable event. It was an absolute honor to lead such a talented and hardworking team.

To all the students, faculty, staff, and guests—your energy and excitement made Bhartiyam 2025 even more special. As we look back at this amazing journey, let it remind us of the power of teamwork, creativity, and shared passion.

Thank you for making Bhartiyam 2025 a truly memorable experience. Your efforts and enthusiasm will continue to inspire us in the years to come.

# INSIGHTS FROM THE CO-ORDINATORS



**Dr. Sudhir Kadam**  
Co-ordinator, Bhartiyam

As an engineer, I have worked on several projects with diverse teams, but one of the roles that brings me the most satisfaction is serving as Bharatiyam's coordinator-in-charge. This time of the year is truly special, as young engineers-in-the-making collaborate with faculty to create a dynamic and inspiring fest. This year's theme, "Synthwave Synergy," encapsulates the essence of harmonizing the past with the future—melding retro aesthetics with cutting-edge technology. Engineering is all about continuous evolution, where every challenge sparks new possibilities. Much like the neon glow of synthwave, innovation thrives when creativity and logic fuse together seamlessly. The energy, ideas, and dedication I have witnessed from student bodies across departments this year are truly remarkable.

On that note, I am incredibly pleased with the contents of this year's magazine. From thought-provoking poetry to in-depth technical articles, Genre 2K25 is a testament to the limitless potential of our students. It reflects their ability to not only dream but also build the future.

Here's to a thrilling and unforgettable Bharatiyam 2025!

Engineering is not just about studying—it's about constantly learning and adapting. In a world where technology is always evolving, the most valuable skill for any engineer is the ability to learn and grow. This year's theme for Bhartiyam, "Synthwave Synergy," perfectly captures this idea. Synthwave represents the blend of past and future, much like engineering, where we build on past knowledge to create something new. The synergy comes from the collaboration of ideas, technology, and creativity, driving innovation forward. I am truly pleased with how this theme has been brought to life across Bhartiyam 2025 and the college magazine, Genre 2K25. The dedication and effort of the students shine through in each event and page of this magazine. The Editorial Board has done a fantastic job in turning this vision into reality, and all student bodies have contributed wholeheartedly in making Bhartiyam a memorable and enriching experience. As the coordinator in charge, this success holds great personal significance for me. I wish the entire student body continued learning, growth, and success in all future endeavors. Keep the spirit of Synthwave Synergy alive, and may you always innovate with passion!



**Prof Gajanan Bhole**  
Co-ordinator, Bhartiyam



# INSIGHTS FROM THE CO-ORDINATORS



**Dr. I.A. Sheikh**  
Co-ordinator, Bhartiyam

Progress is built on curiosity, creativity, and the willingness to explore the unknown. Engineering isn't just about solving problems—it's about reimagining possibilities and shaping the future. With technology revolving faster than ever, the key to success lies in adaptability, innovation, and collaboration. This spirit is perfectly captured in Synthwave Synergy, the theme of Bhartiyam 2025. Synthwave blends nostalgia with futuristic vision, much like how engineering merges foundational knowledge with cutting-edge advancements. Synergy, on the other hand, represents the collective power of ideas, teamwork, and technology—reminding us that great innovations are never born in isolation but through shared effort and imagination. Bhartiyam 2025 and our college magazine, Genre 2K25, stand as testaments to this vision. The dedication and creativity of our students are evident in every event, every project, and every page of this magazine. I hope that every student continues to embrace the excitement of learning, the power of collaboration, and the courage to innovate. May the essence of Synthwave Synergy inspire you to push boundaries and create a future filled with possibilities!

When I was first informed of this year's theme for the college magazine, Synthwave Synergy, I couldn't help but wonder how fitting it is, given the ever-evolving digital landscape we live in. Synthwave Synergy represents the seamless fusion of nostalgia and futurism—a world where retro aesthetics, neon-lit visions, and cybernetic harmonies collide to create something fresh yet familiar. Rooted in the digital age, it captures the essence of technology's continuous evolution while paying homage to the classic eras that shaped modern innovation. A lot has changed during my tenure at this college, and I can think of no reason to contest it. Change is inevitable, much like the pulsating rhythm of Synthwave itself—constantly adapting, evolving, and reinventing. It reflects the push and pull of progress, where past inspirations fuel the future, just as our theme signifies. It gives me great pleasure to state that most of these changes have been for the better. Keeping up has always been a challenge in the fast-moving stream of Synthwave Synergy, but when have we ever shied away from that? However, it shouldn't always be like that. At times, we must take a step back and introspect, recognizing the lessons that every transformation teaches us.



**Prof Gajanan Bhole**  
Faculty Incharge, Art Circle



# MESSAGES FROM THE HEADS OF DEPARTMENTS



**Prof. Dr. S.D Jadhav**

*Head Of Department,  
Basic Science & Humanities*

It gives me immense pleasure to be a part of Genre 2K25, the 33rd edition of our esteemed college magazine. This year's theme, "Synthwave Synergy," beautifully encapsulates the fusion of technology, creativity, and futuristic vision, ideals that resonate deeply with the evolving landscape of engineering and innovation. As we celebrate Bharatiyam, our fest of culture and intellect, I encourage our students to embrace both tradition and modernity, shaping a future driven by knowledge and collaboration. May this edition inspire, educate, and ignite curiosity in every reader. Best wishes to the editorial team and all contributors for making Genre 2K25 a remarkable publication!



**Prof. Dr. Sandeep Vanjale**

*Head of Department,  
Computer Engineering &  
Information Technology*

In the electrifying landscape of "Synthwave Synergy," where the pulse of technology harmonizes with creative brilliance, our journey unfolds. Imagine our College of Engineering as a dynamic circuit board, where every student, faculty, and innovator contributes their unique spark to an ever-evolving masterpiece of progress. This year, we celebrate the fusion of retro aesthetics with futuristic vision, much like the seamless integration of tradition and innovation that defines our institution. Our codes resonate like rhythmic synth beats, and our innovations shine like neon lights on the digital skyline. Wishing you an extraordinary experience at "Bhartiyam" as we ride the pulse of Synthwave Synergy together.



**Prof. Dr. Dr. Bindu Garg**

*Head of Department,  
Computer Science & Business Systems,  
Computer Science and Engineering*

I extend my sincere regards as the Head of the Computer Science and Business Systems (CSBS) and Computer Science and Engineering (CSE) Departments at Bharati Vidyapeeth College of Engineering, Pune. It gives me immense pleasure to share a message for this edition of the departmental magazine—a platform that reflects the collective creativity, dedication, and vision of our students and faculty. This magazine not only highlights academic excellence but also showcases the diverse talents that make our department unique. We are also eagerly looking forward to BHARATIYAM, our annual event, set to take place in the coming weeks. This year's theme, Synthwave, embodies the fusion of retro aesthetics and futuristic vision, symbolizing the coexistence of nostalgia and innovation.



# MESSAGES FROM THE HEADS OF DEPARTMENTS



**Prof. Dr. D.S Bankar**

*Head Of Department,  
Electrical & Computer Engineering*

The Electrical and Computer Engineering Department proudly welcomes you to BHARATIYAM 2025, our annual techno-cultural fest, themed "Synthwave Synergy"—a seamless blend of innovation and legacy. Just as electrical and computer engineering drive the future while staying rooted in fundamental principles, this fest celebrates perfect harmony between tradition and technology. BHARATIYAM 2025 brings you an exciting lineup of technical competitions, hands-on workshops, cultural performances, and insightful expert talks, showcasing how emerging technologies continue to revolutionize the world while being built on a strong foundation of engineering excellence. Step into BHARATIYAM 2025, where tradition and progress go hand in hand, and boundaries are redefined. Let's celebrate the spirit of innovation and excellence—together!



**Prof. Dr. K.B Sutar**

*Head of Department,  
Mechanical Engineering,  
Robotics And automation*

"As Head of Mechanical Engineering & Robotics, I am honored to present Bhartiyam, a celebration of innovation, technology, and heritage. This year's theme, "Synthwave Synergy," symbolizes the fusion of tradition and futuristic advancements, where mechanical precision, AI, and automation redefine engineering. As disciplines merge, adaptability, creativity, and collaboration become essential. Engineering now goes beyond machines to intelligent systems that enhance efficiency, sustainability, and human interaction. Our department fosters research, innovation, and hands-on learning, encouraging students to push boundaries. Synthwave Synergy reflects how heritage inspires breakthroughs, and Bhartiyam provides a platform to explore this connection more connected and innovative future.



**Prof. Dr. Rajesh H. Jadhav**

*Head of Department,  
Civil Engineering*

The Civil Engineering Department proudly welcomes you to BHARATIYAM, our annual techno-cultural fest themed 'SynthwaveSynergy'—a fusion of technology and tradition. Just as civil engineering blends modern innovations with time-tested principles, this fest balances progress and heritage. BHARATIYAM features technical competitions, workshops, cultural performances, and expert talks, showcasing the evolution of engineering wisdom. More than a fest, it's a platform for learning, collaboration, and inspiration, where future engineers explore new ideas while honoring the past. Join us in celebrating BHARATIYAM 2025, where tradition meets innovation, and excellence knows no limits!



# MESSAGES FROM THE HEADS OF DEPARTMENTS



**Prof. Dr. Shruti Oza**

*Head Of Department,  
Electronics & Telecommunication Engineering*

Welcome to an era of innovation and inspiration, where Synthwave Synergy serves as our guiding theme. This concept symbolizes the perfect blend of nostalgia and futurism where the best of the past fuels our journey into the future. Just as synthwave music harmonizes retro beats with cutting-edge soundscapes, our work thrives on the dynamic fusion of individual strengths, creativity, and collaboration. It's a celebration of bold ideas, teamwork, and a shared vision that transcends boundaries. Let this theme inspire us to think differently, challenge conventions, and illuminate our path forward with the vibrant energy of possibility. Together, we can build a future that's as bright as the neon glow of our collective imagination. Wishing a transformative year of creativity, synergy, and success to Bharatiyam 2025!



**Prof. Dr. Prakash Chavan**

*Head of Department,  
Chemical Engineering*

As the Head of the Department of Chemical Engineering, I am delighted to share my enthusiasm and anticipation for Bharatiyam 2025, our institute's annual techno-cultural extravaganza. This flagship event has always been a vibrant showcase of diversity, talent, and the rich cultural heritage of our community. This year's theme, "Synthwave Synergy," adds a unique dimension to Bharatiyam 2025, encouraging our students, faculty, and participants to creatively interpret and express its profound essence. I am excited to witness how this theme inspires innovation and unity across our university. Let us join hands to embrace the spirit of "Synthwave Synergy" and make Bharatiyam 2025 an celebration of the interconnected cycles that shape our lives



**Prof. Dr. Arundhati A. Shinde**

*Head of Department,  
Department of Electronic and Communication*

This year is a celebration of innovation, creativity, and collaboration. Our theme, 'Synthwave Synergy' perfectly embodies the fusion of the past and the future where nostalgia meets cutting-edge technology, where two aesthetics merge seamlessly with modern technological advancements. Synthwave Synergy draws inspiration from the vibrant, neon-light era of the '80s infused with the futuristic vision of today. From the resurgence of analog synths in digital music to the convergence of AI and IoT, we are witnessing an era where nostalgia fuels progress. May this fest inspire you to push boundaries, ignite your creativity, challenge your perspectives, and create a future that harmonizes technology and imagination. Enjoy the electrifying energy, the synergy of ideas, and the limitless possibilities ahead! Wishing you a fantastic celebra-

# JOINT SECRETARIES



**Shaleen Chakraborty**  
Art Circle



**Nilay Soman**  
Chemical



**Atharva Bandal**  
Civil



**Souhard Raut**  
Computer



**Milan Sharma**  
CSBS



**Atharva Joshi**  
CSE



**Karan Patil**  
El&CE



**Parikshit Bhoyar**  
ECE



**Gayatri Maral**  
E&TC



**Sarthak Joshi**  
IT



**Shivam Jadhav**  
Mechanical



**Kaustubh Naik**  
R&A

# STUDENT ASSOCIATION

**IICHE***International Institute of Chemical Engineers*

In academia, student societies drive innovation and curiosity. Among them, the International Institute of Chemical Engineers (IICHE) stands as a hub of excellence, empowering future chemical engineers. Conducted industrial visit at shiv shakti oxalate pvt. Ltd. In kurkumb A competition pushing students to solve real-world challenges with bold,

challenges with bold, creative ideas—transforming knowledge into impact. At IICHE, learning isn't just in textbooks—it's about collaboration, discovery, and shaping the future.

**CESA**

Civil Engineering Students Association

CESA (Civil Engineering Students Association) is beyond excited to bring you BHARATIYAM, our grand techno-cultural fest, a perfect fusion of innovation, talent, and celebration! This year we are taking it to the next level with Structure Zone, an exclusive civil engineering challenge that will put your technical expertise, problem-solving skills, and creativity to the test.

- CREDAI Seminar – A platform that bridges the gap between theoretical knowledge and industry practices, equipping students with real-world insights from leading professionals.
- Monarch Surveying Firm Workshop – A comprehensive 2-day training on modern surveying techniques using GIS and drones, enhancing hands-on learning.
- CAD Design Institute Seminar – An insightful session on cutting-edge designing software, empowering students with advanced technical skills.
- Koyna Dam Site Visit– A valuable on-field experience for final-year students.

**ACES**

Association of Computer Engineering Students

The Association of Computer Engineering Students (ACES) is the official club of the Computer Engineering Department, fostering a community of innovation, problem-solving, and technical excellence. ACES provides student with a platform to explore the latest advancements in computing while engaging in competitive and technical events.

Another major event, AR/cade, brought together over 35-40 teams of 2-4 members in a thrilling gaming showdown. With a prize pool of ₹10,000, the winners claimed ₹5,000, while the first and second runners-up won ₹3,000 and ₹2,000, respectively. The event saw fierce competition and an electrifying atmosphere, making it one of Bharatiyam's most anticipated highlights.



## DCOE DCSE-CSBS

BV(DU)COE PUNE

**Department of Computer Science and Business Systems**

The CSBS Student Association (CSBS-SA) at Bharati Vidyapeeth College of Engineering Pune serves as a vibrant platform dedicated to cultivating innovation, collaboration, and comprehensive development among students of the Computer Science and Business Systems department.

Focused on bridging technical expertise with business acumen, CSBS-SA actively empowers students to excel in the modern digital era.

During BHARATIYAM, our esteemed annual techno-cultural festival, we organized highly acclaimed gaming events—LEVEL UP and Playtopia—that captivated participants and showcased their competitive spirit. Playtopia featured an exciting lineup of interactive and engaging games, including Foosball, Nerf Battle, Mini Golf, Mini Football, Duckling Duck, and Stick Catcher. The event emphasized teamwork, quick thinking, and strategy.



## DCOE DCSE-CSE

BV(DU)COE PUNE

**Department of Computer Science and Engineering**

The Department of Computer Science and Engineering has updated its curriculum with vocational courses, MOOCs, and project-based learning. Students gain practical experience through a 60-day industrial internship, along with seminars, workshops, and industry collaboration.

SIH Smart India Hackathon, Coding Competition by Coding Crackers, Swachhta Hi Seva Quiz Competition, Seminar on Cybersecurity Trends by Amrapali Madhekar, Water Conservation Poster Competition

**Achievements:** A team from our department was selected for the SIH Grand Finale. Navya Khanna, a student from our department, won the intra-university badminton tournament.



**ECSA**  
INFORMATION AND COMMUNICATION  
TECHNOLOGY ASSOCIATION

## ECSA

Electronics and Communications Student Association

The Electronics and Communication Students Association (ECSA) is an active student-run association formed with the aim of providing an exciting and attractive environment for people in ECE.

Through seminars, guest lectures, and technical events. Every year in Bhartiyan ECSA organizes several events such as prompt Rumble, web hive, and many more engaging tournaments exploring fields of electronics. ECSA aims to produce a capable, creative, confident zone for each and every member ready to contribute to the quickly evolving tech sector. Bhartiyan ECSA is proud to present Squid Electronz, an exciting two-level technical competition designed to challenge participants' knowledge and problem-solving skills in both hardware and software domains.



**ELEC**⚡ **A**

## ELECSA

Electrical and Computer Engineering

The Electrical and Computer Engineering Student Association (ELECSA) is the heartbeat of our dynamic department, fostering a community where innovation meets excellence.

Industrial Visit to Prakash Bhavan, Pune – Exploring Electric Vehicles & Charging Infrastructure The future of mobility is electric, and our visit to Prakash Bhavan, Pune, was a game-changing experience for students keen on EV technology. The visit provided detailed exposure to electrical infrastructure, smart energy management, and the latest advancements in power distribution.



## ETSA

**Electronics and Telecommunication Student Association**

The Electronics and Telecommunication Student Association (ETSA) is where passion for technology meets purpose. Rooted in the strong values that define the department's legacy, ETSA actively promotes collaboration, mutual growth, and a shared vision of empowering future leaders.

Our approach is simple yet effective: we create platforms where theoretical knowledge transforms into practical skills. At ETSA, we have organized various social drives to make a positive impact in society.

### Aakash Ganga:

Commemorating National Space Day, ETSA has been organizing various events for 2 years to create awareness about space programs and celebrate the successful landing of Chandrayaan 3.



## iTSA ITSA

**Information Technology Student Association**

The Information Technology Student Association (ITSA) fosters innovation, collaboration, and skill development among IT students. ITSA serves as a vibrant platform for students to enhance their technical knowledge, engage in hands-on learning experiences, and connect with peers who share similar interests.

### Internal Hackathons for Skill Building:

This focus on fostering innovation, teamwork, and time management skills. Participants work collaboratively to develop solutions to industry-inspired challenges, often within a time frame of 24-48 hours.



## MESA

**Mechanical Engineering Students' Association**

The Mechanical Engineering Students' Association (MESA) is a student-driven body dedicated to fostering technical excellence, innovation, and professional growth among aspiring engineers. It serves as a dynamic platform where students can explore, learn, and apply mechanical engineering principles beyond academics.

MESA regularly organizes a range of technical and professional development events, including: Seminars & Expert Talks on trending topics like Electric Vehicles, Industry 4.0, AI in Manufacturing, Sustainable Engineering, and Robotics. Workshops & Hands-on Training sessions on 3D Printing, CAD/CAM, Automation, and Mechatronics. Technical Competitions such as Techno-Kshetra, where students participate in Robo Race, Sumo War, Soccer, Line Follower, and Paper Presentation. Annual Project Exhibitions showcasing innovative student projects and research work.



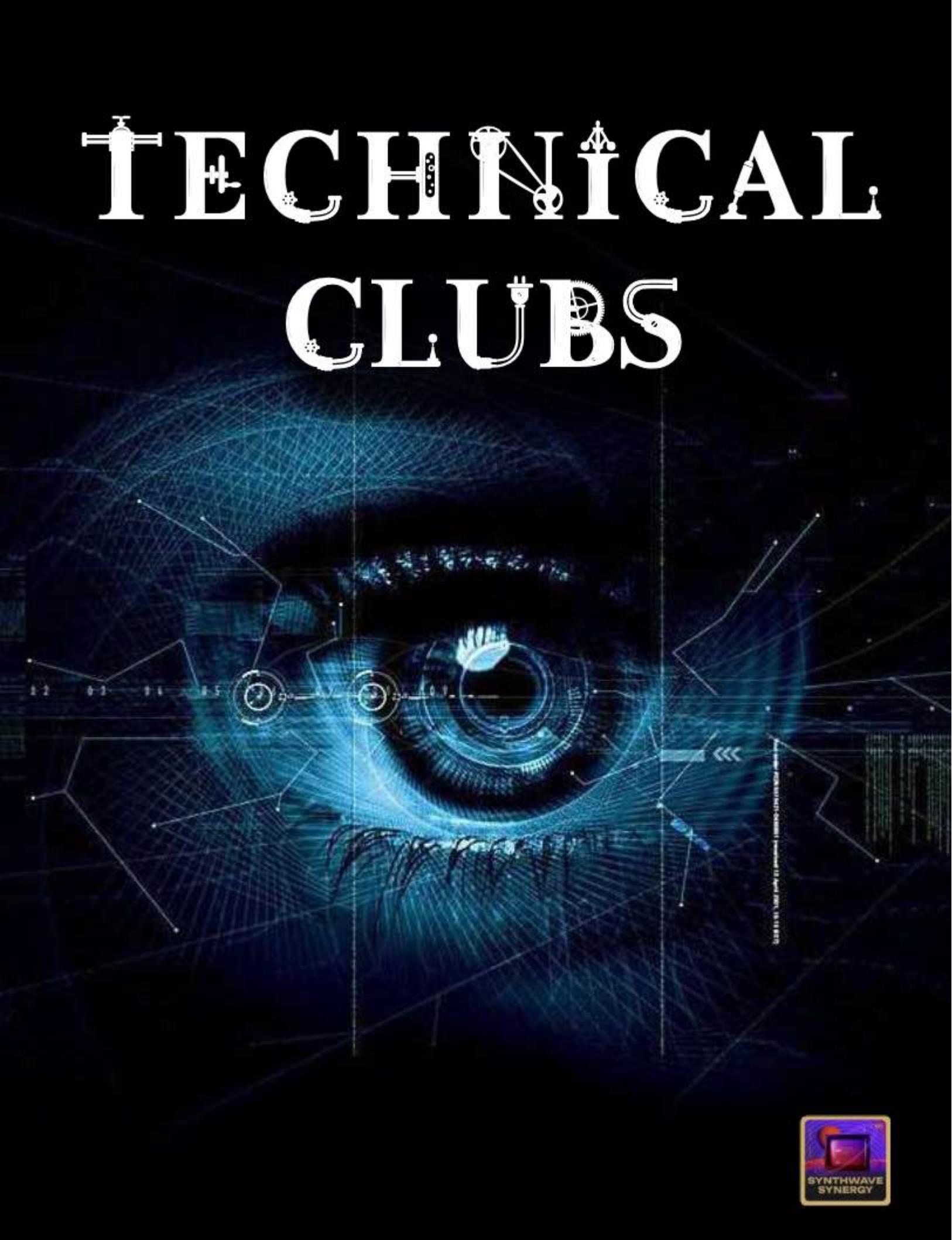
## RAESA

**Robotics and Automation Engineering Students**

The Robotics and Automation Engineering Students Association (RAESA) is committed to supporting students of the Robotics and Automation branch. Our mission is to provide hands-on exposure to real-world applications, foster competitiveness in robotics competitions.

Over the past two years, RAESA's intercollegiate Roborace has been a highly successful event, showcasing the cutting-edge creativity and technical expertise of students. Participants from various colleges competed in this electrifying event, taking on challenging tracks with their innovative robotic designs. RAESA also hosted an engaging inter-departmental chess competition, emphasizing strategy, intellect, and tactical skills.

# TECHNICAL CLUBS



# BLOTIC



BLOTIC is a forward-thinking, tech-driven club dedicated to empowering students with in-depth knowledge of blockchain and Web3 technologies. It serves as a launchpad for innovation, bridging the gap between Web2 and Web3 while cultivating a dynamic community of tech enthusiasts eager to explore the future of decentralized technology.

With a strong focus on hands-on learning and real-world applications, BLOTIC fuels curiosity, hones cutting-edge skills, and inspires the next generation of blockchain pioneers. By fostering collaboration and technical excellence, the club shapes future leaders poised to revolutionize the digital landscape.

BLOTIC has hosted several impactful events. Blockchain Beyond Borders featured TEDx speaker Raj Kapoor, Founder of the Indian Blockchain Alliance, inspiring over 100 students with insights into Web3 innovation. The Flow Hackathon, in collaboration with GirlScript Foundation, brought developers together to tackle real-world challenges through blockchain solutions. Another milestone event, Blockchain Beyond Bitcoin, featured Kamlesh Nagware, Co-Founder of FSV Capital and a TEDx speaker, who inspired over 350+ students with insights into blockchain applications beyond cryptocurrencies. His session provided a fresh perspective on decentralized finance and enterprise blockchain adoption.

One of BLOTIC's most celebrated events, Virtual Matrix 2.0, was a two-day neon-themed extravaganza held from February 22-24, 2024. It featured VR gaming, PS5 competitions, plank-walking simulations, neon tattooing, and a 360-degree selfie booth, offering a futuristic, immersive experience for students and faculty alike.

BLOTIC remains dedicated to building a strong Web3 ecosystem through workshops, seminars, and hands-on learning. By equipping students with blockchain expertise, the club continues to drive the Web3 revolution, preparing members to make meaningful contributions to this transformative industry.



# EDC



Entrepreneurship  
Development Cell  
BVJDU COEP

The Entrepreneurship and Startup Cell is dedicated to nurturing a culture of innovation, problem-solving, and business development among aspiring entrepreneurs. It provides a structured platform for individuals to ideate, validate, and launch their startups through mentorship, networking, and hands-on learning experiences.

#### Key Activities & Initiatives:

- Startup Incubation & Mentorship
- Workshops & Training Programs
- Pitching & Funding Opportunities
- Hackathons & Ideation Challenges

#### Events Organized in the 2024 Tenure

##### •Ignite Hackathon

A high-energy event where teams tackled real-world challenges through coding and prototyping. Winners received mentorship and incubation support.



# FINANCITY

FINANCITY

\* FINANCIAL FLAIR. BILLIONAIRE AIR \*

#### Financity: Financial Flair, Billionaire Air

As the sole finance and economics club at Bharati Vidyapeeth College of Engineering, Financity transforms curiosity into expertise. By making financial concepts accessible, the club fosters financial literacy, career readiness, and an entrepreneurial mindset. Financity empowers students with financial literacy, investment knowledge, and professional certifications like NISM. Additionally, it helps faculty stay updated with the latest financial trends, ensuring a well-rounded financial learning environment.



Financity recently hosted an engaging session on mutual funds, covering portfolio diversification, risk management, and early investments. The interactive session, led by the founder of Financity, captivated over 180+ students and faculty, sparking insightful discussions.





Student Chapter

The GeeksforGeeks Student Chapter Bharati Vidyapeeth University College of Engineering Pune (BVUCOEP) is a vibrant hub for tech enthusiasts, fostering a community of learners passionate about coding, technology, and innovation. Our club allows students to enhance their programming skills, explore cutting-edge technologies, and connect with industry experts.

#### Past Events & Initiatives

**GeekSphere 2025** – Held on January 24th, 2025, this flagship event featured insightful sessions by Pranoti Nandurkar (Mastering the Art of Prompt AI), Ajinkya Lohakare (Generative AI: Common Use and Future Trends), and Varun Srinivas (How to Become a Developer in the Age of AI). It was a resounding success, bringing students closer to the future of AI and development.

**Three 90 Challenge** – A unique 90-day learning challenge powered by GeeksforGeeks encouraging students to upskill with structured learning and a 90% course fee refund upon 90% completion. This initiative promotes discipline, consistency, and industry readiness.

**Bharatiyam Special** – During the Bharatiyam 2024, we had the honor of hosting renowned YouTuber Prakhar Gupta (Prakhar ke pravachan) for an engaging podcast session, inspiring students with his valuable insights and giving them a career path to progress further in life.

In the upcoming Bharatiyam 2025, GeeksforGeeks is excited to host renowned comic influencers, bringing a refreshing dose of humor and entertainment. Get ready for an engaging session filled with laughter, witty insights, and unforgettable moments that will add a fun twist to the event!



# GDGC



## GOOGLE DEVELOPER GROUPS OF BHARATI VIDYAPEETH COLLEGE OF ENGINEERING PUNE.

Google Developer Groups (GDG) BVP is a dynamic tech community at Bharati Vidyapeeth College of Engineering, Pune, dedicated to fostering innovation, learning, and collaboration among developers. It organizes tech talks, workshops, hackathons, and networking events on emerging technologies like AI/ML, Web & App Development, Cloud Computing, and DevOps. As part of the global GDG network, GDG BVP provides students and professionals with opportunities to learn from industry experts, build projects, and grow their careers in the tech ecosystem.



# IEEE



### IEEE STUDENT BRANCH

IEEE is the Institute of Electrical and Electronics Engineers. It is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

#### Key points:

**Members:** Over 400,000 members in more than 160 countries.

**Fields of Interest:** Electrical engineering, computer science, telecommunications, robotics, artificial intelligence, and more

**Publications:** Publishes research papers, journals, and conference proceedings (e.g., IEEE Transactions, IEEE Spectrum)

**Standards Development:** Develops global technology standards, such as Wi-Fi (IEEE 802.11), Ethernet (IEEE 802.3), and many more

**Conferences & Events:** Organizes international conferences like IEEE International Conference on Communications (ICC), IEEE Computer Society events, and more.



# VIGYANAM

VIGYANAM – BV(DU)COE

Beyond Basics, Beyond Boundaries

VIGYANAM, the newly launched science club at Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune, is anything but ordinary. Designed to ignite curiosity and innovation, this club provides a platform where students transcend textbook knowledge to explore real-world science and technology.

At VIGYANAM, students get hands-on experience in cutting-edge fields through:

- Workshops & Projects – Covering AI, Machine Learning, Web Development, and more.
- Hackathons & Competitions – Preparing students for high-stakes problem-solving.
- Research & Development – Encouraging students to publish papers and bring ideas to life.

#### Achievement :

Despite being a newly formed club, VIGYANAM has already made its mark. We are excited to share that our team won the SIH Grand Finale – Hardware Edition in Ghaziabad! This incredible achievement is a testament to our team's hard work, dedication, and problem-solving skills.



# WOMEN CELL



The Women's Cell of Bharati Vidyapeeth College of Engineering, Pune, is dedicated to fostering an environment where women can grow, lead, and make a meaningful impact in society. Through various initiatives, the Cell works towards empowering women in leadership, health awareness, and social responsibility. It provides a platform for mentorship, skill-building, and personal development, ensuring that women gain the confidence and knowledge needed to excel in all spheres of life.

Over the years, the Women's Cell has organized several impactful events, including a \*Financial Independence Awareness Seminar for Women\*, where students learned essential financial literacy skills to achieve economic independence. Additionally, self-defense workshops have equipped participants with the confidence to ensure their safety, while mental health awareness programs have encouraged open conversations about well-being.





# The Art Circle





## THE LITERARY COUNCIL

The literary council is a collection of people who think , inspire and express powerful thoughts . Be it the speakers, the writers or the designers, they all collaborate to create pieces that fuse literature with oration, wording and stunning visual expressions. We offer students a place to be imaginative, explore their literary talents and express them creatively.

### Events -

Bazm-e-sham : A Hindi/Urdu Poetry open mic organised where participants' poetic pieces were their way of expression

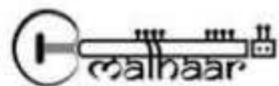
Pratham Stambh : A Parliamentary Discussion and debate that allowed students to raise and express their views on on-going topics and issues

Opinion Odyssey: A Debate competition where in participants paired up in two to speak in favour or against the provided topic

### Achievements -

1. 1st price in the event iktara - Niverve fest
2. Runner up in the event iktara - Niverve fest
3. 1st Price in reportage broadcast journalism - Mood Indigo
4. 1st Price in moodcast podcast competition- Mood Indigo





## MALHAR

Team Malhaar, the official music crew of Bharati Vidyapeeth College of Engineering, has been a driving force over the past decade, exhibiting exciting performances and earning top honours at contests such as UNMAAD and Mood Indigo. The group, made up of excellent musicians from varied backgrounds, has played at major events such as the BJMC Festival, Youth Fest, SymPulse, Springfest, Red FM 93.5. Malhaar is more than just a music group; it is a thriving community dedicated to music.





## MALANG

Malang is more than just an art and photography club; it is a sanctuary where imagination breathes, colors speak, and photographs narrate untold stories. As an integral part of the Art Circle, Malang is a thriving hub where creativity finds a home and artistic minds converge. Every brushstroke, every captured frame, and every diligently designed decoration embodies the spirit of expression that Malang stands for.

Malang's journey features a series of remarkable events that celebrate artistic exploration. The Art and Photography Exhibition showcased stunning works by talented students, while Fashion Euphoria brought a dazzling fusion of fashion and creativity to life. The Rangoli Competition added a vibrant splash of color and culture to the campus, and Photo Walk Treks inspired students to see the world through a different lens. The Mandala Workshop introduced participants to the meditative beauty of intricate patterns, fostering both skill and tranquility.

Beyond campus contributions, Malang has earned prestigious accolades in national-level competitions.

1. 3rd Place in India (2024)—ranked among the top artists in a prestigious national competition hosted by the Indian Art Federation.
2. 4th Place & Top 5 Ranking (2024)—Achieved a ranking among the top 5 in a national competition hosted by India Art Fest, placing in the 18 to 60+ age band.
3. 2nd Place in Hunnar Season 1
4. 3rd Place in Taare Zameen Pe 2.0
5. Among top 3 winners in Aperture Adventure—Won at a photography competition organized by NICMAR University, Pune, during Technikala 2024.
6. 3rd Place in Fine Art Competition—a national-level competition organized during Youth Fest India.
7. Among top 3 winners in Poster-Making Competition—secured at an event organized by ETSA BVP.





# RHAPSODY

Rhapsody is the Official Dramatics Society of the college, a team of storytellers, actors and performers. We take pride in delivering powerful social messages and raising awareness through our thought-provoking and captivating street plays. Our performances are more than just acts—they are voices of change, echoing through streets and hearts alike.

## EVENTS:

Izhaar : A mono-act competition was organised by Rhapsody in 2024 as a part of our annual fest, Bharatiyam to give students a platform to showcase their acting skills. It is one of the flagship events of our club and it represents our dedication towards fostering theatrical and dramatic expertise among students.

Dastak: It is an annual street-play competition organized during our annual fest, Bharatiyam where teams from various colleges of Pune and surrounding areas come to compete. This event is filled with extraordinary acting skills, thought provoking themes, and impactful performances. This year, Dastak is renamed as RangBhoomi.

Rangmarch : During September 2024, a talent show was organised to give students a platform to present various talents they possess. Annually, this event serves as the promotional event of Rhapsody and gives stage presence to all the hidden and known talents of our campus.

## ACHIEVEMENTS:

- 1st Position at FLUXUS 2023 by IIT Indore
- 1st Position at BVP New Law College Youth Fest
- 1st Position at MIT WPU Aarohan
- 1st Position at Symbiosis Symbhav 2022
- 1st Position at IIT Bombay's Mood Indigo
- 2nd position at IIT Kharagpur's Spring Fest 2020
- 2nd position in mono-act organized by Sympulse'25





**RAQS**

Raqs, the official dance crew, is a powerhouse of talent, passion, and artistry, bringing together dancers who breathe life into every performance. With unwavering dedication and discipline, we have made our mark in the Collegiate Dance Circuit, winning 1st place at Symbiosis Law College's Symbhav Duet Dance Competition, IMED Group Dance Competition, and securing 3rd place at IIM Bangalore's Unmaad Solo Classical Dance Competition. We have also triumphed as winners at Symbiosis College's Group Dance Competition and proudly qualified for national-level competitions at IIT Bombay and IIT Kharagpur. Beyond competing, Raqs has successfully organized large-scale events like Supernova and Feet N Fleet, attracting numerous participants and elevating dance events to inter-college and national levels. With each milestone, we continue to inspire, innovate, and celebrate the transformative power of dance.





## VAAQIF

Introducing Vaaqif, the official rock band of BVDUCOE! Our band comprises some of the college's finest instrumentalists, and we rock the stage at various college events and beyond. Just like our name suggests, Vaaqif recognizes and celebrates the unique talents of each member, resulting in a sound that's truly our own. We infuse traditional Indian music with modern rock vibes, offering a captivating and distinctive musical journey.

As passionate musicians, we live for the thrill of performing for our fellow students. Whether you groove to classic rock or modern tunes, Vaaqif has something for everyone. Through our music, we aim to unite people and foster a sense of community. Join us as we rock out and spread the joy of music together! Within our band, music flows as the heartbeat of our collective spirit.

Our band has taken part in various competitions and college fests and has many laurels such as:

1. Winners of BJMC duet singing competition.
2. Winners of SYMPULSE
3. Winners of SYMBHAV
4. Special mentions at SILHOUETTES (Best song of the night, Best Lead Guitarist-Rohit Padhalni)
5. Winners of NORTH CAP UNIVERSITY SOLO SINGING
6. Winners of AFMC 2018
7. Winners of IMED Xpressions'23





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