

E-MAGAZINE

DREAM INSTITUTE OF TECHNOLOGY



TECHSPARK

COMPUTER SCIENCE AND ENGINEERING



EDITION-2024

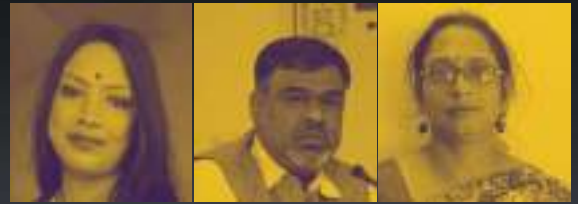
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CHAIRPERSON'S MESSAGE

Susmita Sarkar

Dream Institute of Technology aspires to build a strong technical foundation for new age engineering students. We impart skill-based industry driven knowledge over and above university defined curriculum. This will help to develop the broad technical outlook required for students to survive in this competitive market. We always encourage collaboration between students and faculties, reciprocity and cooperation among students, active learning, prompt feedback and experiential learning beyond classroom. Dream Institute of Technology imparts effective learning skills that helps student to accurately remember information learnt, recall them at the right point of time and utilize them effectively in a wide variety of situations. We encourage students to attend their classes in the college regularly, so that they can build up the habit of attending the workplaces punctually. Besides knowledge, discipline is very much essential for every individual to succeed professionally. At Dream Institute of Technology, discipline is maintained on a priority basis within the college campus. Every student in our institute is made to understand that there can be no short-cut to success. I feel privileged to be apart of this institution and hope to fuel the intellectual energies of all our students with the support of dedicated faculty members of our institute.

PRINCIPAL'S MESSAGE



Prof. (Dr.) Dipankar Sarkar

India is a fast emerging destination for cutting-edge research & development. In the year 2020 India will be in need of large talent pool not only in information technology but also in other fields like nanotechnology, agricultural science, manufacturing etc.

Our students must be equipped to meet these upcoming challenges "Dream Institute of Technology" has become one of the leading engineering institution in West Bengal as well as in India. Within a short span of time the institute has created a niche for itself by providing lucrative career opportunities with esteemed recruiters like TCS, Capgemini, Infosys, Reliance, Accenture, Wipro- spectra mind, Satyam Computers, Cognizant, etc. We have well-equipped computer labs, central computer center and departmental labs to equip students as quality engineers not only in the core sectors but also in the field of software engineering. Dream Institute of Technology, a state-of-the-art engineering institute provides well-equipped workshops and advanced learning resources. From a modest beginning in July 2006, the Dream Institute of Technology made a pledge to create the ideal environment for young, fresh, talents to realize and optimize their potentials. We facilitate students to develop a symbiotic relationship between the community, society, and the institution. We are at work in unison to ensure a tremendous value-addition among our students during their four years' of stay with us. At the same time, we are also confident to ensure that the alumni of our college always feel proud of their institution of choice in the days ahead of us.



HOD'S MESSAGE

Dr. Anindita Mukherjee

Congratulations to the students and faculty associated to magazine committee for successfully publishing the 2nd issue of departmental technical magazine. It is a platform which provides an opportunity to the students and staff to express their original thoughts on technical topics. The magazine plays an instrumental role in providing exposure to the students to develop written communication skills and command over the language. It is a step towards building professional and ethical attitude in them. The entire journey of creating is an outcome of rigorous effort made by students and faculty. Students not only gain the knowledge about the latest technological developments and advancements through reading and writing articles but they also develop verbal and written communication skills. On concluding note, I would like to thank all the stakeholders for their involvement and encouragement and wish all the best for their bright future.

VISION & MISSION

VISION

To be a front runner in Computer Science Engineering Department by achieving academic excellence and adopting the latest technologies.

MISSION

Create an ambience of student centric learning by providing latest learning tools and technologies with Research and innovation orientation.

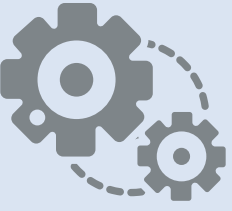
Obtain consultancy and research projects from industry and other organizations to generate revenue and contribute to the growth of institute faculty and students.

Promote entrepreneurship and social outreach programs and contribute to Digital India Mission for the benefits of society.

To provide avenues of continuous development of faculty in upcoming technologies and latest ICT Tools.

Introduce new programs at UG & PG levels in latest ICT domain.





PROGRAM EDUCATIONAL OBJECTIVES (PEOS) COMPUTER SCIENCE DEPARTMENTART



PEO 1: The student will be proficient in the area of developing, debugging, validation, deployment and maintenance as a professional in IT allied industry, capable of pursuing higher studies and or be an entrepreneur anywhere in the world.

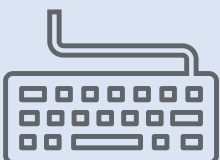


PEO 2: The student will possess skill and knowledge for developing proper relevant solution to different problems regarding designing and analysis of algorithms, OS development and development of coding through different languages, construction of secured robust network.

PEO 3: The student will be knowledgeable about contemporary and ethical issues and possess managerial qualities with effective communication skills.



PEO 4: The students will be capable of adapting latest technology and be an innovator with lifelong learning.





PO (PROGRAM OUTCOMES)

1. ENGINEERING KNOWLEDGE: APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS, AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.

2. PROBLEM ANALYSIS: IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYZE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES.

3. DESIGN/DEVELOPMENT OF SOLUTIONS: DESIGN SOLUTIONS FOR COMPLEX ENGINEERING PROBLEMS AND DESIGN SYSTEM COMPONENTS OR PROCESSES THAT MEET THE SPECIFIED NEEDS WITH APPROPRIATE CONSIDERATION FOR THE PUBLIC HEALTH AND SAFETY, AND THE CULTURAL, SOCIETAL, AND ENVIRONMENTAL CONSIDERATIONS.

4. CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS: USE RESEARCH-BASED KNOWLEDGE AND RESEARCH METHODS INCLUDING DESIGN OF EXPERIMENTS, ANALYSIS AND INTERPRETATION OF DATA, AND SYNTHESIS OF THE INFORMATION TO PROVIDE VALID CONCLUSIONS.

5. MODERN TOOL USAGE: CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODERN ENGINEERING AND IT TOOLS INCLUDING PREDICTION AND MODELING TO COMPLEX ENGINEERING ACTIVITIES WITH AN UNDERSTANDING OF THE LIMITATIONS.

6. THE ENGINEER AND SOCIETY: APPLY REASONING INFORMED BY THE CONTEXTUAL KNOWLEDGE TO ASSESS SOCIETAL, HEALTH, SAFETY, LEGAL AND CULTURAL ISSUES AND THE CONSEQUENT RESPONSIBILITIES RELEVANT TO THE PROFESSIONAL ENGINEERING PRACTICE.

7. ENVIRONMENT AND SUSTAINABILITY: UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.

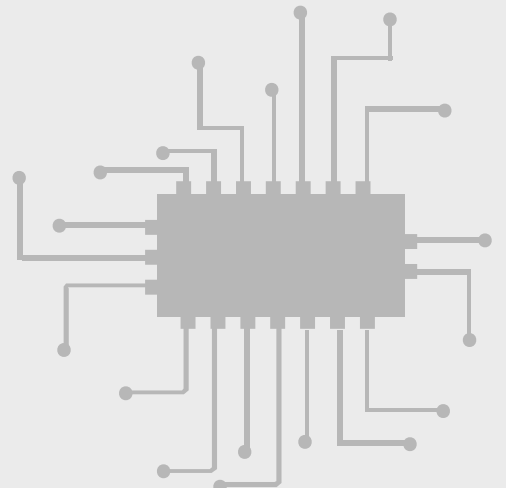
8. ETHICS: APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.

9. INDIVIDUAL AND TEAM WORK: FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS.

10. COMMUNICATION: COMMUNICATE EFFECTIVELY ON COMPLEX ENGINEERING ACTIVITIES WITH THE ENGINEERING COMMUNITY AND WITH SOCIETY AT LARGE, SUCH AS, BEING ABLE TO COMPREHEND AND WRITE EFFECTIVE REPORTS AND DESIGN DOCUMENTATION, MAKE EFFECTIVE PRESENTATIONS, AND GIVE AND RECEIVE CLEAR INSTRUCTIONS.

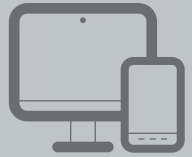
11. PROJECT MANAGEMENT AND FINANCE: DEMONSTRATE KNOWLEDGE AND UNDERSTANDING OF THE ENGINEERING AND MANAGEMENT PRINCIPLES AND APPLY THESE TO ONE'S OWN WORK, AS A MEMBER AND LEADER IN A TEAM, TO MANAGE PROJECTS AND IN MULTIDISCIPLINARY ENVIRONMENTS.

12. LIFE-LONG LEARNING: RECOGNIZE THE NEED FOR, AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.





PROGRAM SPECIFIC OUTCOMES (PSOS) COMPUTER SCIENCE DEPARTMENT

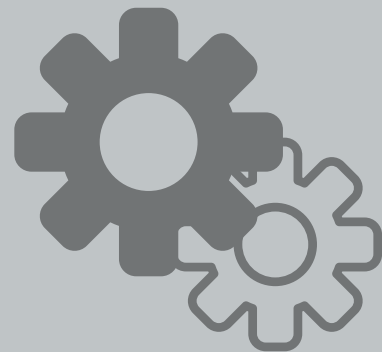


PSO1: Proficiency will be developed in designing and developing computer programs and possess acquaintance with emerging technologies in data sciences.



PSO2: A successful career will be achieved by applying innovative algorithmic principles for coding to propose optimal solutions to complex problems in recent trends in computer science.

PSO3: A successful career will be achieved by applying innovative algorithmic principles for coding to propose optimal solutions to complex problems in recent trends in computer science.



EXAMPLES, AND CASTS.—Extreme caution should be taken in regard to printed examples. Fortunately, from actuality, and not artificial representation, to consider that there is no drawing equivalent



NATURAL AND COMMON OBJECTS

At other times a letter like A, G or U is reduced in size and conveniently inserted into an awkward space. Strictly speaking it has no "lower-case" or "small" letters; those on the last plate. Its modern counterparts, showing the more uniform spacing both this set and all others may best of all be represented in plain - black outlines and capitals of tips are added later. Thickenings and embossings show a slight curvature due to the stroke on the left of the plate, are some simple adaptations of slight variations of curvature in stems and extra bars, &c. in the model that the up-bushings show a slight curvature due to the stroke (as indicated) and further appears under the sheet. The Alphabets for professional use are those, and of course, the first place a good stoppage. The picture shows a copy in a free

GENERAL TOPICS

are devoid of legs, or of any very distinctive features. The second shows how to start, and the third gives a rendering. Only by some such means will caricatures and grotesques. Lower down are three hundreds of living creatures, and a few more as part of the same. The last is a drawing of a grotesque. &c.

ARTICLES

NATURAL AND COMMON OBJECTS

Water-Crane, Bone-James, Moses, Helios, Haezoll, Raab. In all countries confirms this view of the importance of line. Hence we may console ourselves it cannot be all wrong with the pencil when the form demands it and cannot be produced first, it may be as far as the child is able to perfect and expressive as possible, shading or painting by work and technical drawing should therefore run along and disappear. Outlines preparatory to shading or painting are great essentials, so are "construction lines" within shapes, not always but mostly in perspective. And as far as mechanical drawing is concerned, there may be growth from natural forms. There may be vertical points of view. Do they not also use the

- (1) Drawing from Nature.—Candidates are required to draw on a full imperial sheet of paper from a natural object. Candidates are required to draw on a full imperial sheet of paper from a natural object. Candidates are required to draw on a full imperial sheet of paper from a natural object.
- (2) Drawing from Books.—Candidates are required to draw on a full imperial sheet of paper from a book. Candidates are required to draw on a full imperial sheet of paper from a book.

Free-Arm and Industrial Drawing

TECHNICAL POINTS

tribes in general. Lastly, by Japan in common with the Chinese, is by all to whom exact draughtsmanship is a deep sense. Therefore, what the child asks for, ever delights in by its nature, is to cultivate from the very beginning under the guidance of graphic expression, that which is the life and soul of a drawing. In shading with the pencil, the lines should not be drawn with the rubbed-down blunt edge of a fairly soft pencil, or in directions in accordance with contours; but avoid the flat massing with a pointed tool like the pencil without shading. It is a poor imitation of chalk-massing without its virtues. Children cannot evolve anything worth the trouble from a pencil. Also pencil drawings should not be over-large in scale. In all outline and shaded work the side of the point should at all times be turned at right angles to the direction of the line. If more is desired, the pencil should be first rubbed down on a piece of sandpaper to get the paper broad flat edge. For outline a soft HB is best. For shading all things, "expression", quality, and character ("fatness") of the line should be sought for: it is just as important as expression in music. The pressure in order to secure emphasis where needed, being intensified, distant ones softened. "Lining in" is not a separate process, and in nature-work is never employed. It merely means the securing at last, if not at first, of the final satisfactory line required, and can never mean the rubbing down and

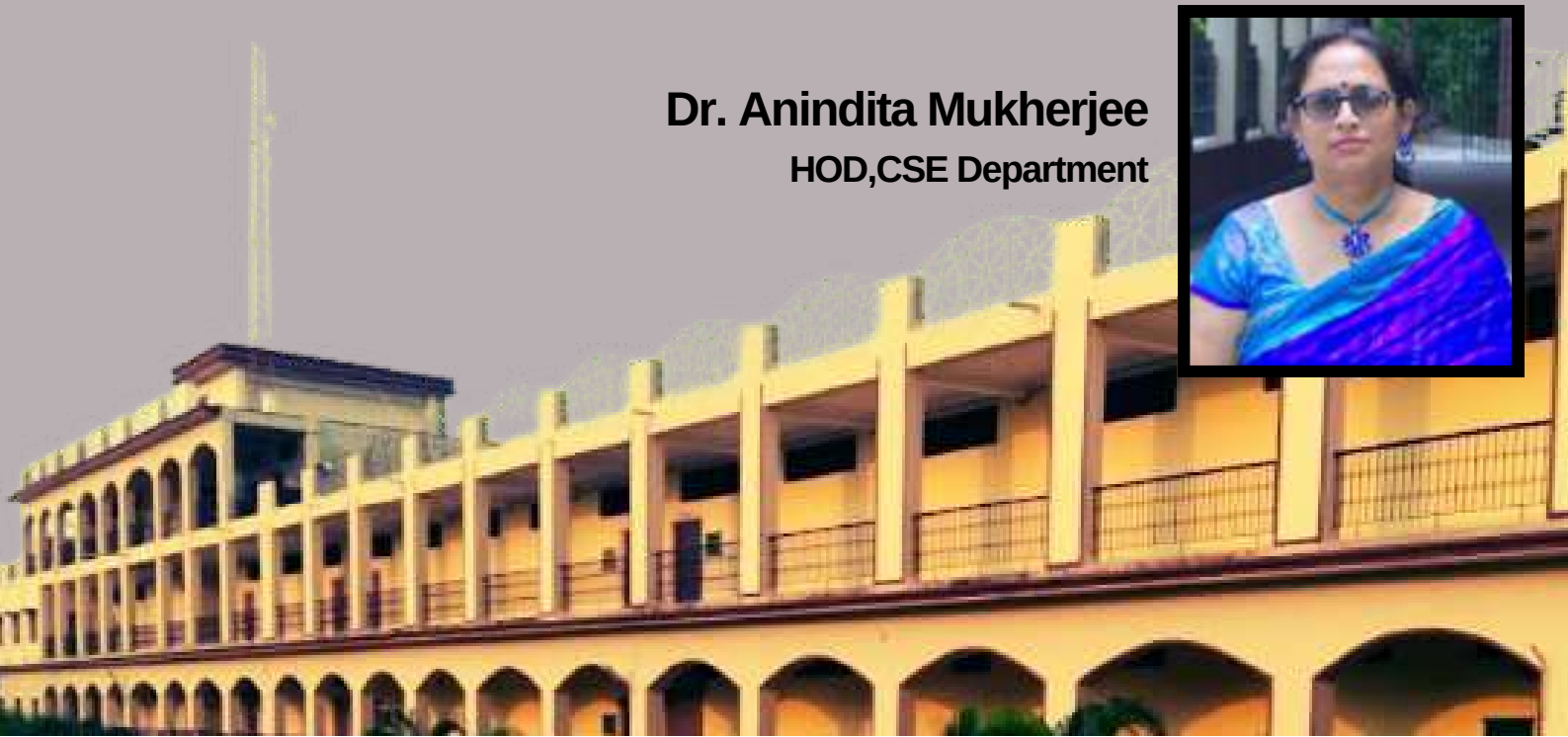
altered to painting (which is entirely a system of shading with the brush) but it is also closely allied to other kindergarten exercises, as clay-modelling. In later stages of similar work, it reappears under the form of shaded pastel drawings of groups of objects on white paper, or similar groups on brown or tinted paper, in which the lighter tints are used to express the light surfaces, and the darker ones to depict the shadows. Ruskin it was, who strongly recommended that people of about fourteen years of age, to pin a branch of foliage in a white vertical surface, and then sketch it in, stems and leaves, in black ink on white paper. This would give the appearance of the branch against the sky, or its shadow on a white surface. A similar representation of objects is also possible for very young children by this method, and quite elaborate forms, such as a church, or a train-car, can be reduced to simple masses, and therefore made easy for them to attempt, by this building-up process. For the earliest efforts of young children it is utterly suitable, and it appears to possess a fascination for them. The earliest

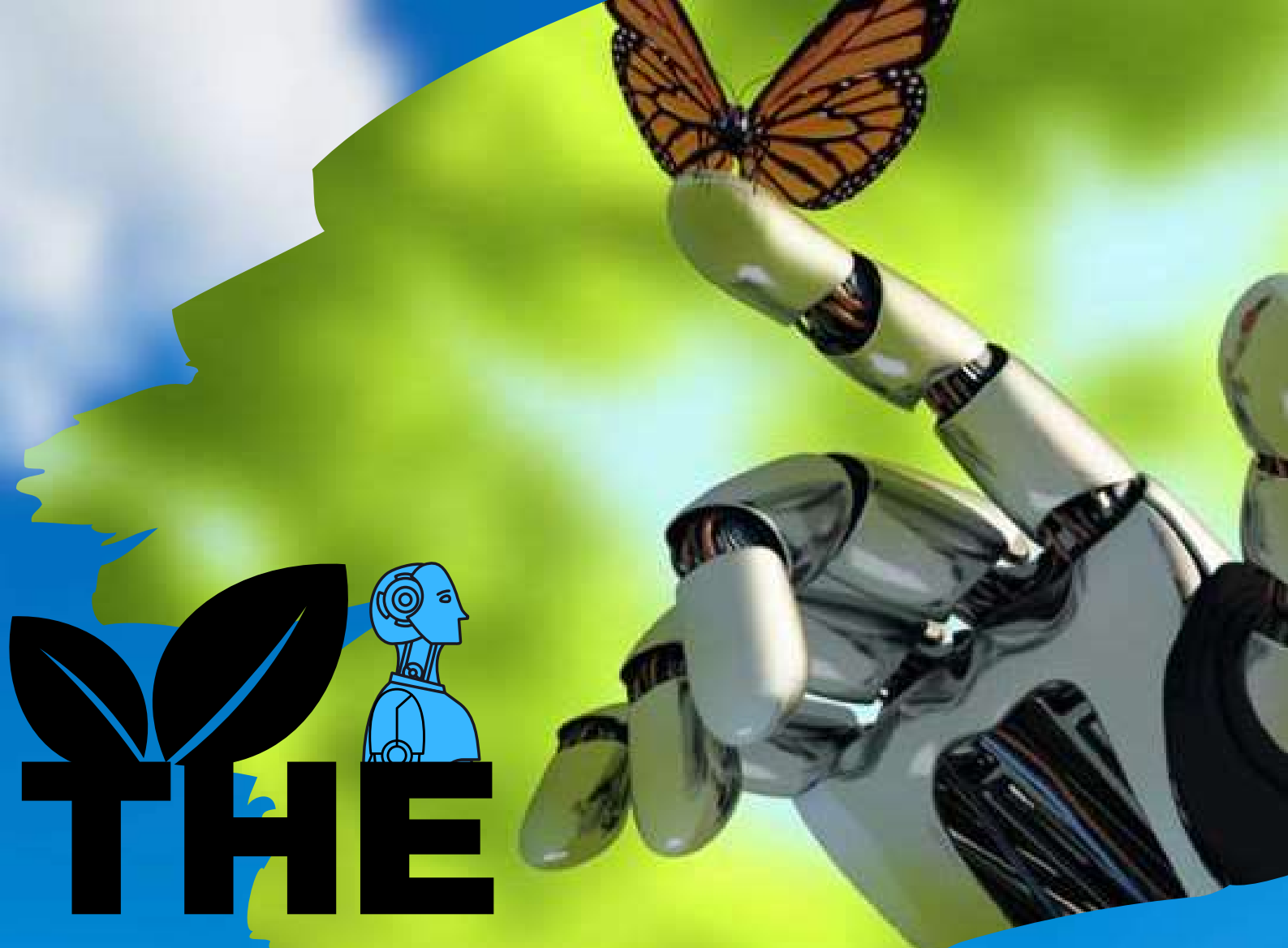
"massing" consists in building up forms, just as objects can be built up in clay. The "dot" is the starting-point, and that is made to grow into larger shapes, by enlargement and other additions. It is quite an evolutionary or successive process. Afterwards, when the wholeness grows older, they are taught to draw a good outline right off at the beginning, because they must necessarily grow experienced in outline drawing and early representation of a mass by an outline. They may then fill in the outline with chalk by carefully shaded lines as an embellishment, and to give a more solid appearance to the object. The order is thus reversed. This filling-in is, however, by no means essential. If also there should at any time appear any tendency to a recurrence of the habit of proportional outlines, recourse may be had to the best corrective. "Massing" must never be allowed to degenerate into "massing" (so there is a large difference in length, a quite sufficient for work—any size, however, for blackboard). For Blackboard Massing, the side of the chalk may be used with advantage, so that the child be allowed to rub in as violently, as it will be only too prone to do.

OUR COLLEGE DREAM

Dream Institute Of Technology has been established since 2006 with the legacy of 18 years of academic excellence . We are committed to providing not only the technical education to our students but also the leadership qualities through which they can create employment to others. In computer science you will learn sequentially what computers are, as how to program them, tools to write a program, the rules when converting the written program understandable by the computers, the interface between the computer and the user, the computer graphics, computer networking, managing the software database, software engineering and testing them efficiently and in the following emerging technology. The Department also places emphasis on all the important aspects of computers such as High speed networks, Soft Computing, Algorithm Design, Network Security, Advance database systems, Theory of computation and many more. The Department also takes initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. The excellent infrastructure, teaching faculty of the best kind of the Department ensuring quality education such as interaction among students, parents and staff, along with a Training and Placement Cell ensures a bright future to its students. The Department of CSE is striving hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence and provides platform for the students to achieve their career goals. The Department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds to make them globally competitive. Innovative methods of teaching and learning process are adopted to achieve learning abilities through practice, exposure and motivation. Department has an excellent infrastructural and computing facilities and provides a conducive environment to promote academic and research excellence in the department. For holistic development we have started with the magazine and news letter from this year.

Dr. Anindita Mukherjee
HOD,CSE Department





THE ROLE OF AI IN ENVIRONMENTAL CONSERVATION

Artificial Intelligence (AI) has emerged as a dominant tool in addressing serious environmental challenges. From climate variation to biodiversity loss, AI is being harnessed to analyze data, optimize resource utilization, and develop innovative solutions.

AI algorithms can process vast quantities of environmental data, including satellite imagery, weather patterns, and pollution levels. This data helps monitor changes in

ecosystems, deforestation, ice melt, and pollution, allowing for timely interventions and policy adjustments.

Similarly AI algorithms can foretell future environmental trends based on historical data and current patterns. For instance, AI models can forecast climate changes, enabling communities to prepare for extreme weather events, sea-level rise, and other environmental impacts and optimize resource use in various sectors, such as energy, agriculture, and transportation.

Apart from climate prediction, AI is also aiding wildlife conservation efforts by analyzing animal behavior, tracking endangered species, and observing poaching activities. Machine learning helps identify poaching hotspots, allowing authorities to take targeted actions to protect vulnerable species.

Waste management systems powered by AI can sort and process waste more efficiently. Robotics and computer vision enable automated sorting, recycling, and waste-to-energy processes, reducing environmental impact.

The role of AI in environmental conservation and sustainability is rapidly evolving. As AI technologies continue to advance, their integration into environmental efforts holds great promise for creating a more sustainable and resilient world.



Kunal Hossain
Assistant Professor , CSE
Department

CHANDRAYAAN 3

INTEGRATING AI FOR LUNAR EXPLORATION

Chandrayaan 3, India's third lunar mission, marks a significant leap forward in integrating Artificial Intelligence (AI) into space exploration. Building on the successes and lessons learned from Chandrayaan 2, ISRO (Indian Space Research Organization) is leveraging AI to enhance the mission's efficiency, accuracy, and data analysis capabilities.



One of the primary areas where AI is playing a crucial role in Chandrayaan 3 is in mission planning and trajectory optimization. Advanced algorithms analyze vast amounts of data to compute optimal trajectories, ensuring the spacecraft's precise navigation to the Moon.

Furthermore, AI algorithms are being employed for autonomous operations, enabling the spacecraft to make real-time decisions based on sensor data. This autonomy is essential for addressing unexpected challenges during the mission and optimizing resource utilization.



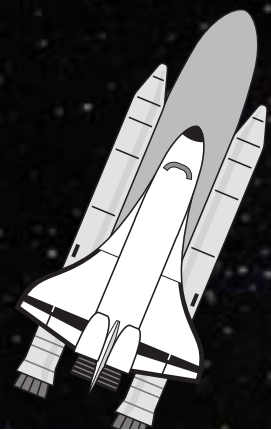
In the realm of data processing and analysis, AI algorithms are assisting in sifting through the immense volume of data collected during the mission. Machine learning models help identify scientifically significant patterns, minerals, and potential landing sites, aiding scientists in making informed decisions and formulating future lunar missions.

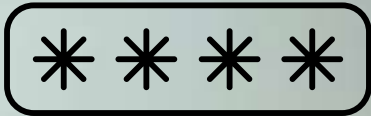
Chandrayaan 3 is also utilizing AI in its communication systems, enhancing signal reception, noise reduction, and data transmission. These improvements are vital for ensuring a reliable and seamless flow of data between Earth and the spacecraft.

The integration of AI in Chandrayaan 3 not only signifies technological advancement but also sets the stage for further developments in space exploration. As AI continues to evolve, its role in future space missions will likely expand, leading to more sophisticated and efficient explorations of our celestial neighbors.



Reena Sengupta,
Assistant Professor , CSE
Department





THE PRIVACY CHALLENGES OF APP DEVELOPERS



Introduction:

In an era where smartphones have become an extension of our daily lives, the role of app developers in shaping our digital experiences is more significant than ever. However, as they craft the next big thing in the world of mobile applications, a significant challenge has emerged — safeguarding user privacy. Based on interviews and a survey of app developers, a critical story unfolds about the hurdles they face when striving to enhance user privacy. This article explores these challenges, potential solutions, and the pivotal role of public policy.

Challenges Faced by App Developers:

App developers, the unsung heroes behind our favourite apps, often encounter several hurdles in their quest to improve user privacy. Some of these challenges include:

Complex Privacy Policies: Crafting and comprehending intricate privacy policies can be a formidable task. The legal jargon and convoluted language in these documents are often baffling. **Privacy Not Their Primary Task:** For many developers, ensuring user privacy is not their primary role. With a wide range of responsibilities, privacy considerations sometimes take a back seat in the development process.

Nudges for Improvement:

To help app developers enhance user privacy, experts have proposed a range of "nudges":

Simplified Privacy Guidelines: Streamlining and simplifying privacy guidelines can make it easier for developers to comprehend and integrate privacy best practices into their work.

Privacy Toolkits: Providing developers with ready-made resources and toolkits can significantly lower the complexity of implementing robust privacy features in their apps.

Education and Training: Hosting workshops and training programs on privacy best practices can empower developers to better understand the significance of privacy and how to incorporate it into their projects.

Public Policy: The Catalyst for Change:

Public policy plays a pivotal role in motivating better privacy behaviours across the app development ecosystem. Here are some measures that governments and regulatory bodies can implement:

- **Privacy Legislation:** Enacting and enforcing strict privacy laws that mandate user data protection can motivate app developers to prioritize privacy.
- **Privacy Audits and Certification:** Offering incentives like tax breaks or certifications for apps that adhere to stringent privacy standards can encourage developers to invest in user privacy.
- **Transparency and Reporting:** Requiring developers to be transparent about their data collection and usage practices, alongside mandatory reporting of data breaches, promotes accountability.
- **Collaboration with Tech Giants:** Government collaboration with major tech companies can facilitate the creation of standardized privacy practices and provide resources to smaller developers.

CONCLUSION: In the ever-evolving world of smartphone apps, finding a balance between innovation and user privacy is crucial. By addressing the challenges app developers face and implementing a combination of nudges and public policy incentives, we can strive to create a more secure and user-focused digital landscape, ensuring that our favourite apps protect our data while delivering the best experiences.



**Subhankar
Ghosh**
3rd year,
CSE



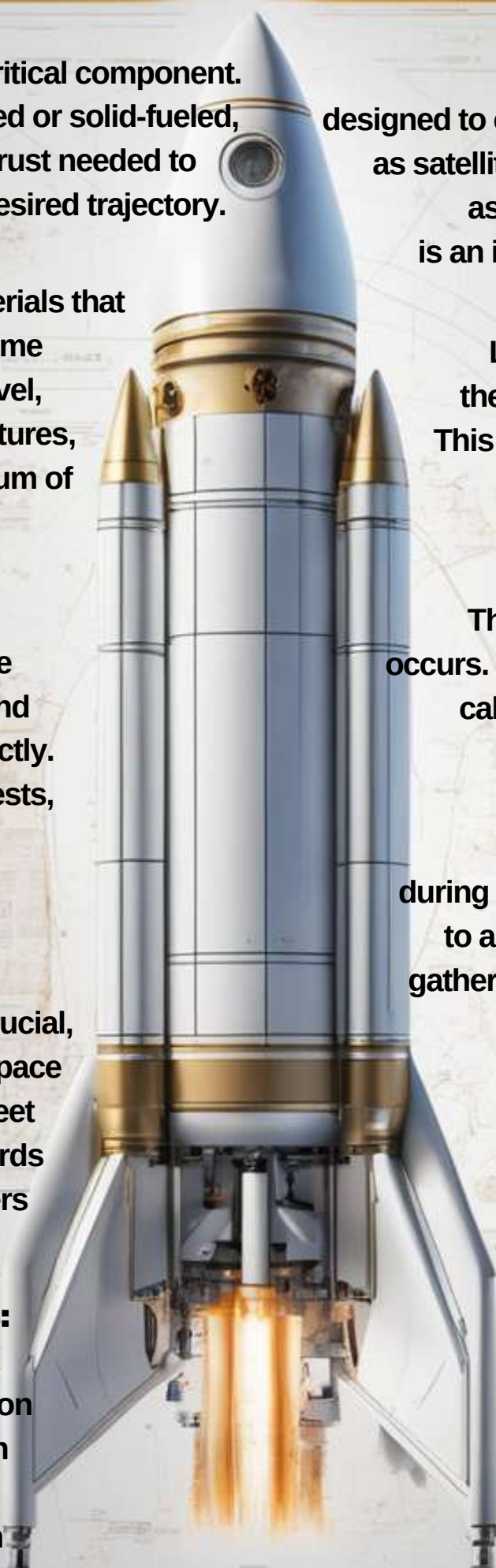
AN IN-DEPTH LOOK AT THE PHASES OF ROCKET DEVELOPMENT

We know Rocket development is a complex and multifaceted field involving the design, construction, testing, and launch of rockets. Rockets are used for various purposes, including space exploration, satellite deployment, and military applications. Here's an overview of rocket development:



i. Design:

The process starts with the design of the rocket, where engineers and scientists create detailed plans for the rocket's structure, propulsion system, and payload capacity.



ii. Propulsion:

Rocket engines are a critical component. They can be liquid-fueled or solid-fueled, and they provide the thrust needed to lift the rocket into the desired trajectory.

iii. Materials:

Engineers choose materials that can withstand the extreme conditions of space travel, including high temperatures, radiation, and the vacuum of space.

iv. Testing:

Extensive testing is performed to ensure the rocket's components and systems function correctly. This includes ground tests, suborbital tests, and sometimes unmanned orbital test flights.

v. Safety:

Safety measures are crucial, especially for human space flight. Rockets must meet stringent safety standards to protect crew members and payloads

vi. Launch Facilities:

Rocket development includes the construction and operation of launch facilities where rockets are prepared for launch and eventually launched into space.

vii. Payload Integration:

Rockets are designed to carry various payloads, such as satellites, scientific instruments, or astronauts. Payload integration is an important part of the process.

viii. Launch Operations:

Launch teams work to ensure the rocket is prepared for liftoff. This includes fueling, countdown procedures, and monitoring weather conditions.

ix. Launch:

The rocket is ignited, and liftoff occurs. The rocket follows a carefully calculated trajectory to reach its intended destination.

x. Data Analysis:

Data collected during the rocket's flight is analyzed to assess its performance and to gather scientific or operational data.

xi. Iterative Process:

Rocket development often involves an iterative process of design, testing, and improvement to enhance performance and reliability.



Amitava kar ,
3rd year,
CSE

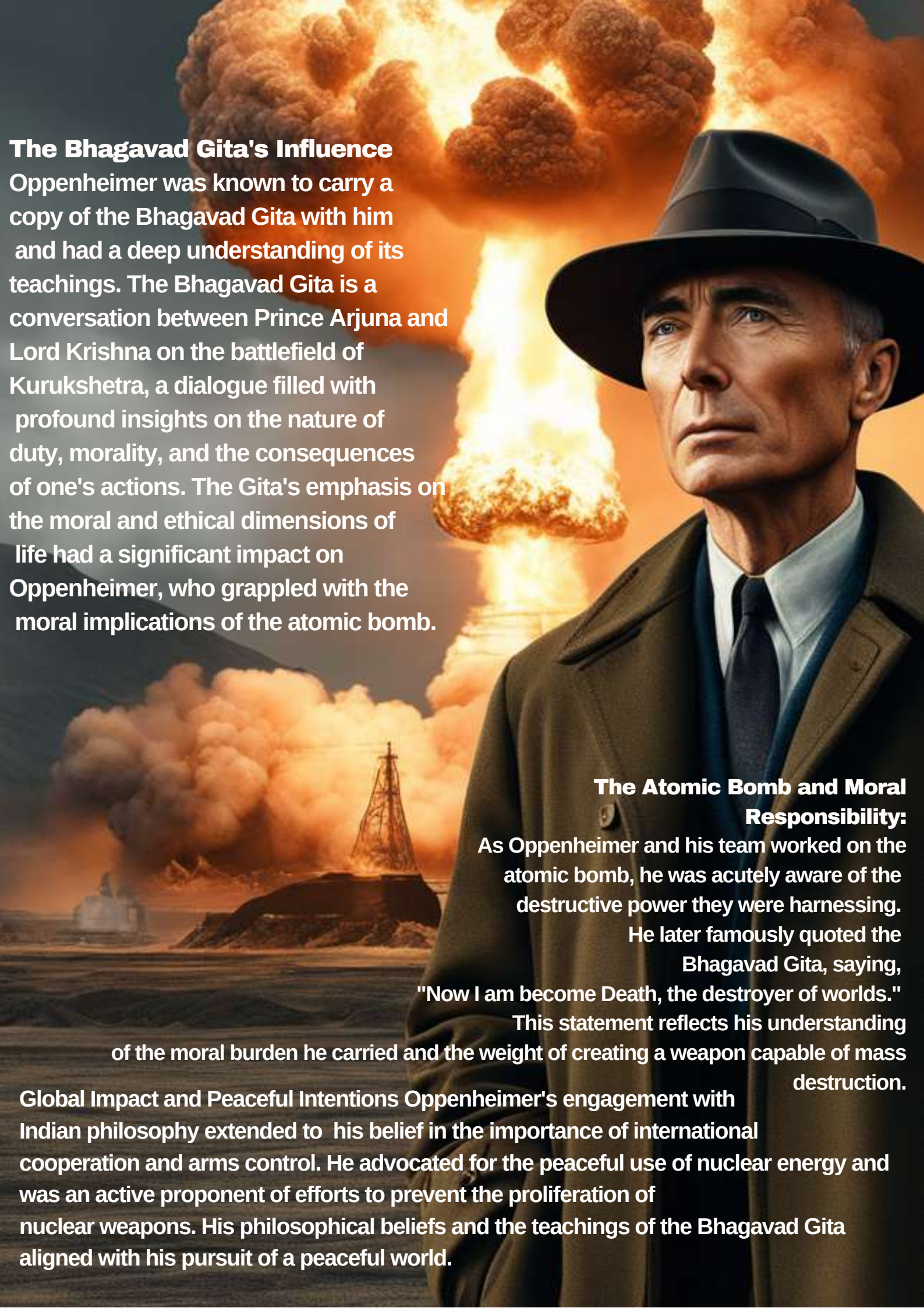
BRAHMASTRA

THE MODERN DAY NUCLEAR WEAPON

Introduction

J. Robert Oppenheimer, the renowned physicist and director of the Manhattan Project, played a pivotal role in the development of the atomic bomb during World War II. While there is direct evidence that the Mahabharata or the Bhagavad Gita inspired Oppenheimer's scientific work, his interest in Indian philosophy and his

deep appreciation of the Bhagavad Gita's themes are well-documented. This article delves into how Oppenheimer's exposure to these ancient texts might have influenced his worldview and actions during a crucial period in human history.



The Bhagavad Gita's Influence
Oppenheimer was known to carry a copy of the Bhagavad Gita with him and had a deep understanding of its teachings. The Bhagavad Gita is a conversation between Prince Arjuna and Lord Krishna on the battlefield of Kurukshetra, a dialogue filled with profound insights on the nature of duty, morality, and the consequences of one's actions. The Gita's emphasis on the moral and ethical dimensions of life had a significant impact on Oppenheimer, who grappled with the moral implications of the atomic bomb.

The Atomic Bomb and Moral Responsibility:

As Oppenheimer and his team worked on the atomic bomb, he was acutely aware of the destructive power they were harnessing.

He later famously quoted the Bhagavad Gita, saying,

"Now I am become Death, the destroyer of worlds."

This statement reflects his understanding of the moral burden he carried and the weight of creating a weapon capable of mass destruction.

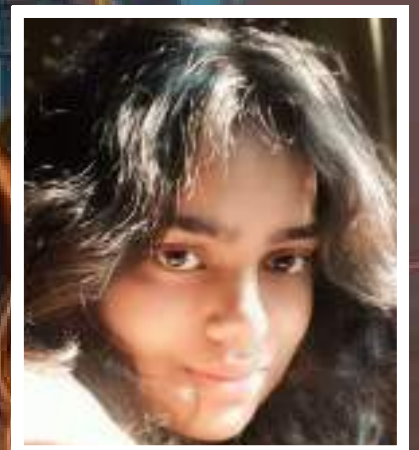
Global Impact and Peaceful Intentions Oppenheimer's engagement with Indian philosophy extended to his belief in the importance of international cooperation and arms control. He advocated for the peaceful use of nuclear energy and was an active proponent of efforts to prevent the proliferation of nuclear weapons. His philosophical beliefs and the teachings of the Bhagavad Gita aligned with his pursuit of a peaceful world.

Conclusion

While there is direct link between the Mahabharata, the Bhagavad Gita, and the development of the atomic bomb, it is clear that Oppenheimer's exposure to Indian philosophy and his deep appreciation for its ethical and moral teachings played a significant role in shaping his worldview during a critical period in history.

The juxtaposition of the Bhagavad Gita's wisdom and the devastating power of the atomic bomb left an indelible mark on Oppenheimer and continues to be a subject of historical and philosophical interest.

Sanchaita Tunga
2nd year,
CSE





“MOTHER”

‘M’= Magnificent

‘O’= Outstanding

‘T’= Tender

‘H’= Honourable

‘E’= Extraordinary

‘R’= Remarkable

Mother is a person who gives millions of things. She can shed tears when she is in full compassion but she can be fierce like a tigress when her child is in danger. She teaches us lessons, lessons of life, moral lessons. She is modest, humble. She is a never-say-die spirit. She is extraordinary.

Koyana Datta
2nd year,CSE





SCIENCE

&

SANATAN

Science and Spiritual Wisdom

In today's world everything is related to science. Everyone needs a scientific explanation whenever there is a need to prove something. But that doesn't mean that science explains everything. Spirituality is one of the of the domain where sometimes science fails to explain something. Often referred to as Hinduism, it is not just a religion but a way of life rooted in ancient spiritual wisdom. Beyond its religious aspects, it encompasses a profound understanding of the universe, human life, and the interplay between science and spirituality. In this article, we delve into the rich tapestry of scientific knowledge embedded within the principles of Hinduism.

1. Cosmic Understanding

Hinduism delves into the concept of the cosmos and the cyclical nature of the universe, which aligns with modern cosmological theories. The idea of the universe's creation, preservation, and dissolution (Brahma, Vishnu, and Shiva) resonates with the Big Bang theory and the eventual heat death of the universe.

2. Law of Karma and Conservation Laws

The Law of Karma, asserts that every action has consequences. This concept finds resonance in the laws of physics, particularly the conservation laws. Actions and energy are never truly lost but transformed into different states, embodying the principle of conservation of mass and energy.

3. Yoga and Mind-Body Connection

Sanatan Dharma emphasizes the harmony between mind, body, and spirit. Yoga, a fundamental practice, explores the intricacies of the mind-body connection. Modern scientific studies corroborate the positive effects of yoga and meditation on mental and physical health, demonstrating the ancient wisdom's relevance in the contemporary world.

4. Ayurveda: The Science of Life

Ayurveda, the traditional Indian system of medicine, is deeply rooted in the history of Hinduism. It focuses on holistic well-being, natural remedies, and personalized healthcare. Many Ayurvedic practices align with modern holistic medicine, emphasizing the body's innate healing abilities and the importance of a balanced lifestyle.

5. Environmental Conservation and Respect for Nature

It teaches reverence for nature and all living beings. This ecological awareness resonates with modern environmental conservation efforts. The principles of nonviolence (ahimsa) and sustainable living are akin to contemporary environmental ethics, emphasizing the need for harmony between humanity and nature. These principles, emphasizing the interconnectedness of all aspects of life.

The synergy between science and spirituality within this ancient belief system provides a holistic perspective on the universe, human existence, and the pursuit of knowledge. By embracing these principles, individuals can not only enrich their spiritual lives but also contribute to the betterment of the world through the application of scientific understanding and compassion, thereby creating a harmonious balance between science and spirituality.



Arkapravo
Chakraborty
2nd year,
CSE



“LIONESSE THE QUEEN”

“Ma Durga”, the word itself follows ‘strength’, ‘courage’, ‘valour’, ‘beauty’ and ‘inspirations’. Ten hands handle our whole mankind strongly. Likewise, Ma Durga handles the balance of our family in the disguise of a Mother, a sister and all strong feminine characters which plays an integral role in our daily day life.

The love, care, support which a mother provides and the

sacrifices she does, for a child's establishment and for her family's betterment is worthy to be mentioned. God has sent her replacement, in the disguise of mother whose contribution cannot be just explained in pen and paper.

A strong woman has the ability to work efficiently as lady boss in office and at the same time sit by her husband's side during worship. A true feminine has the potential to nurture her family with utmost love and affection as well as earn her fame and gold medal in Olympics.

She is the picture of beauty, strength, glory, sacrifices, bravery and a lot more adjectives. She is luminous, lustrous, fresh, delicate and a clay mould of affection and love.

"She" also depicts the beauty and charisma of nature and animals which supports our ecosystem. The worshipping of animals like lion, peacock, banana trees, rats, owls, swans and a lot more according to Hindu mythology is just for the sake of preservation, protection from extinction of the species. Every single species has their own job in maintain the stability of our mother nature. It is our duty and responsibility to protect the species from extinction and pay due respect to our mother, sisters and all females whose participation and contribution is acknowledgeable. Thus, a woman is the true Epitome of a QUEEN LIONESS.



Falguni Mondal
2nd year,
CSE



PEACE

**A CHALLENGE,
CONCILIATORY, TRANQUIL,
PRIORITY, OUTCOMES, NEED**

In the middle East, it is clear that peace will never be reached without solving the Israeli-Palestinian conflict. A two-state solution must be found and enforced. The death toll from the conflict so far has risen to at least 1,400 people killed in Israel and nearly 2,700 people killed in Gaza. Amid ongoing conflict, the presidents of Russia and Syria have urged an end to hostilities. This is the current situation of the war ongoing in Israel. Why is world peace so hard to achieve?



One of the primary reasons why world peace has been so challenging to achieve lies in the vast array of historical conflicts and deeply established divisions present globally. Historical grievances, territorial disputes, religious animosities, and ideological clashes continue to fester, carrying the weight of generations. These age-old conflicts often create insurmountable hurdles on the path to peaceful resolutions, as the wounds of the past at times seem impossible to heal. The absence of an efficient and impartial global governance system represents a fundamental challenge to the attainment of world peace. Despite the establishment of international organizations and initiatives, their effectiveness is often hindered by power imbalances, geopolitical interests, and a lack of agreement among nations. Whether it is the United Nations, the International Criminal Court, or disarmament treaties, their efficacy is frequently undermined by state sovereignty concerns, competing agendas, and collective action problems. The difficulties in building an inclusive and authoritative global governance structure capable of addressing complex global challenges delay the establishment of a strong foundation for lasting peace.

In this article, peace is emphasized as a vital condition for all aspects of our existence, as individuals, as a society, and in our planet.

What exactly do we understand by PEACE?

When asked “what is peace?” we tend to define it in terms of the absence of war, warlike conflicts, or discord. Known as a negative conception of peace, this perspective has persisted since ancient times. Conversely, positive peace emphasizes the promotion of concord, or harmony and tranquility. It is viewed as peace of mind or serenity. It is defined as a state of law or civil government, a state of justice or goodness, a balance or equilibrium of Powers. Positive peace desires peace and wellbeing and avoids conflict at all costs. However, this concept appears perfect, utopian, or unattainable as the misery of war is all too striking in places such as Syria, Yemen, Myanmar Ukraine, Israel.

In a world marred by violence and conflict, peace stands as a beacon of hope for humanity. The pursuit of peace, as an alternative to war, is a worthy endeavour for several reasons. Firstly, war results in devastating consequences including loss of lives, destruction of infrastructure, and devastating psychological trauma. Embracing peace, on the other hand, fosters cooperation, stability, and meaningful progress.

Secondly, peace facilitates the growth of nations by ensuring economic stability, social harmony, and improved well-being for citizens. Lastly peace allows for the exploration of diplomacy and negotiation, providing opportunities to resolve differences and create a more inclusive global society. The pursuit of peace is not merely an idealistic concept but a practical and imperative alternative to war. As individuals, nations, and global citizens, it is our responsibility to actively seek peace, foster understanding, and promote a world free from violence and conflict.

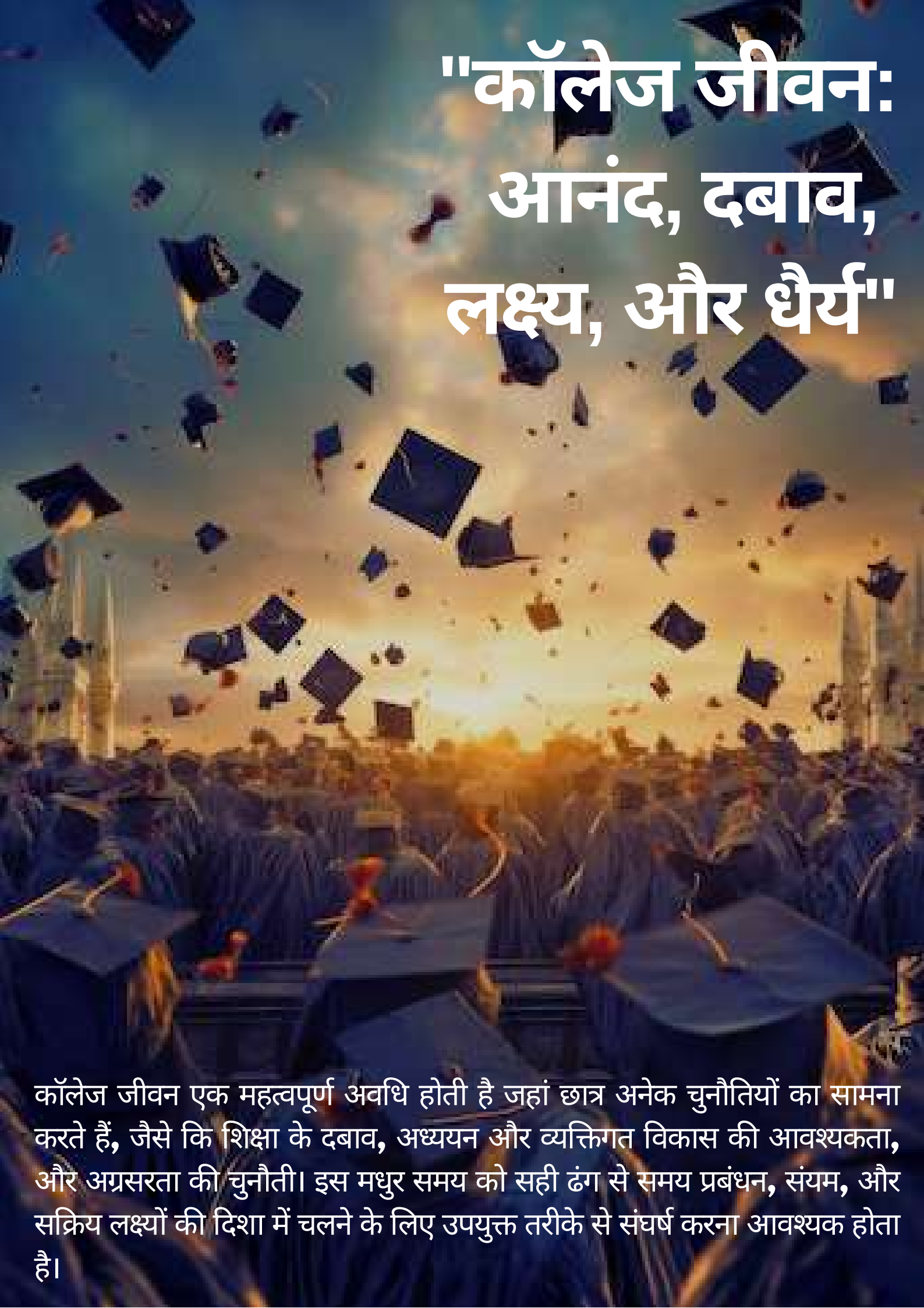
In a world where peace reigns, there would be numerous positive outcomes that would significantly improve the well-being of societies globally. Firstly, economic prosperity would thrive as nations allocate resources towards development rather than military endeavours. The reduction in military spending would allow governments to invest in infrastructure projects, education, healthcare, and poverty alleviation programs, consequently improving the overall standard of living for citizens. Secondly, there would be increased cultural exchange and understanding among nations, fostering global cooperation and collaboration. People from different backgrounds would have the opportunity to learn from one another, leading to enriched perspectives, ideas, and enhanced creativity. This exchange would promote global unity and reduce conflicts rooted in ignorance and misunderstanding. Finally, a peaceful world would behold environmental preservation and sustainability as a priority. Countries would work together to mitigate climate change impacts, protect biodiversity, and create more sustainable practices to ensure the longevity of the earth for future generations.

I would like to conclude by quoting few lines from a poem written by 6th grader of a student from California:

*I close my eyes,
I enter a wonderful place.
I open my eyes,
I see and hear cries and pain.
I believe that one day
My dream of a peaceful world will come.*

Ishika Sen
1st year,
CSE





"कॉलेज जीवन: आनंद, दबाव, लक्ष्य, और धैर्य"

कॉलेज जीवन एक महत्वपूर्ण अवधि होती है जहां छात्र अनेक चुनौतियों का सामना करते हैं, जैसे कि शिक्षा के दबाव, अध्ययन और व्यक्तिगत विकास की आवश्यकता, और अग्रसरता की चुनौती। इस मधुर समय को सही ढंग से समय प्रबंधन, संयम, और सक्रिय लक्ष्यों की दिशा में चलने के लिए उपयुक्त तरीके से संघर्ष करना आवश्यक होता है।

समय प्रबंधन: एक निश्चित अध्ययन अनुसूची बनाएं और प्राथमिकताएं तय करें ताकि आप अपने लक्ष्यों की दिशा में स्थिर रहें।

संघर्ष और समर्थन: विद्यार्थी को उच्च शिक्षा की मान्यता के साथ-साथ अपने मानसिक स्वास्थ्य का भी ध्यान देना चाहिए।

लक्ष्य निर्धारित करें: एक स्पष्ट लक्ष्य तय करें और उसे प्राप्त करने के लिए समर्थ योजना बनाएं।

सहायक संसाधनों का उपयोग करें: कॉलेज द्वारा प्रदान की जाने वाली सहायता और संसाधनों का सही ढंग से उपयोग करना शिक्षा में सफलता प्राप्त करने में मददगार सिद्ध हो सकता है।

सामाजिक संबंध और समर्थन: सक्रिय रूप से सामाजिक गतिविधियों में भाग लेना, और अच्छे दोस्तों की विद्यार्थी जीवन में महत्वपूर्ण भूमिका निभाने में मददगार सिद्ध हो सकते हैं।

Ritik Kumar Singh
3rd year,
CSE



ART





Rukshanda khan
1st year,CSE



kahini Bhakta
3rd year,CSE



Arkapravo Chakraborty
2nd year,CSE

Sayanika Banerjee
1st year,CSE



Soham Bag
2nd year,CSE



Rohan Das
1st year,CSE



ACADEMIC TOPPERS



ACADEMIC TOPPERS

**1ST YEAR
2ND SEMESTER**



BHASKAR SAU
CGPA- 8.44



FALGUNI MONDAL
CGPA- 9.02



SOHAM BAG
CGPA- 8.24



ACADEMIC TOPPERS

2ND YEAR 4TH SEMESTER



RITIK KUMAR SINGH
CGPA- 8.57



MOINAK CHATTERJEE
CGPA- 8.95



ANKITA PAL
CGPA- 8.43



ACADEMIC TOPPERS

3RD YEAR 6TH SEMESTER



BANDANA NANDA
CGPA- 9.05



HRITHIK DAS
CGPA- 9.32

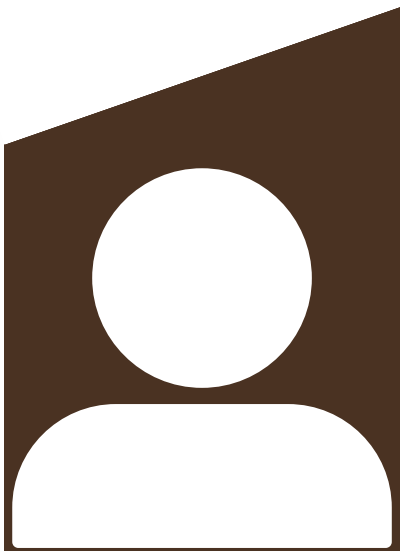


PIU MONDAL
CGPA- 9.05



ACADEMIC TOPPERS

4TH YEAR
8TH SEMESTER



DEYASINI MANNA
CGPA- 9.6



SANDIP HATI
CGPA-9.68



RISHI MAJUMDAR
CGPA- 9.4





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2ND YEAR



ACHIEVEMENTS





NASA
INTERNATIONAL
SPACE APPS
CHALLENGE



FORTH YEAR



NEBULANOMADS

Make a Moonquake Map 2.0!

Team members are Debjyoti Adak, Suman Paul, Abhijit Rauth, Nimai Chand Giri, Soumyajit Paramanick



COSMOS

STAR: Revolutionizing Technical Standards with AI

Team members are Suvojit Baidya, Debajyoti Sanyal, Debayan Ghosh, Swarup Kumar Supakar.



AstraSadhaks

Planetary Tourism Office

Team members are Yogesh Summan, Soumik Mukherjee, Rupam Mukherjee, and Hrithik Das



AQUAMINDS

Everything Starts With Water

Team members are Tofayel Molla, Moksadul Rahaman, and Sujoy Sarkar



NASA
INTERNATIONAL
SPACE APPS
CHALLENGE



TECH INFINITE

Eclipses : Perspective Is Everything

FORTH YEAR

Team members are Piu Mondal , Sutapa Das, Souvik Mondal.

THIRD YEAR

Winner!



WaveWarriors

To create an accessible platform that visually, sonically and interactively users about important ocean-provided services in a way they can easily understand.

Team member are Kazi Arsalaan Ahmed, Kohinoor Mallick, and Yeash Jain



NASA INTERNATIONAL SPACE APPS CHALLENGE



THIRD YEAR



PHOBOS
Habitable Exoplanet

Team members are Moinak Chatterjee, Ankita Pal, Saikat Khamaru, Anish Mandal, Subhankar Ghosh.



The Space Strikers
Open Science Storytelling

Team members are Ritik Kumar Singh, Amitava Kar, Rudrasom Shee, Jui Dey, Arnesh Pal, and Soumitra Mondal.

SECOND YEAR



Antarishk Abhiyan
Planetary Tourism Office

Team members are Arkapravo Chakraborty, Sanchaita Tunga, Falguni Mondal, Debasrita Chakraborty, Koyana Dutta.



Falguni Mondal,
2nd year,
CSE



ACHIEVEMENTS

On 18th August anti ragging competition took place and she had secured 1st position in slogan and 2nd position in essay writing competition.



Arkapravo Chakraborty
2nd year,
CSE

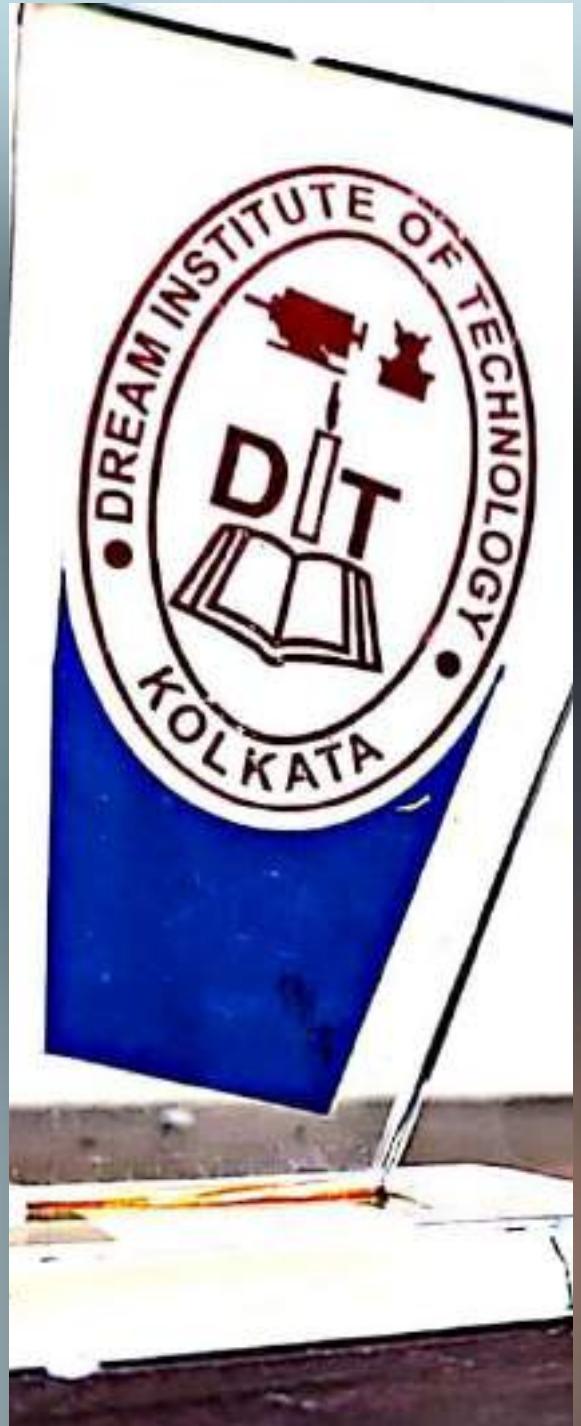
ACHIEVEMENTS

On 21st January,2023 a debate competition took place,in which he had won a memento as 1st runner up. Organised by NSS UNIT.





Arijit Ghosal
2nd year,
CSE



ACHIEVEMENTS

On 18th August anti ragging competition took place and he had secured 1st position in E-poster competition. He also got a memento for hackhive coding contest as a 1st runner up that took place on 20th may.



"কবিতা আসে বলার
মধ্যে যেহেতু আপন মুখ আছে, সে একটি কবিতা নয়।"

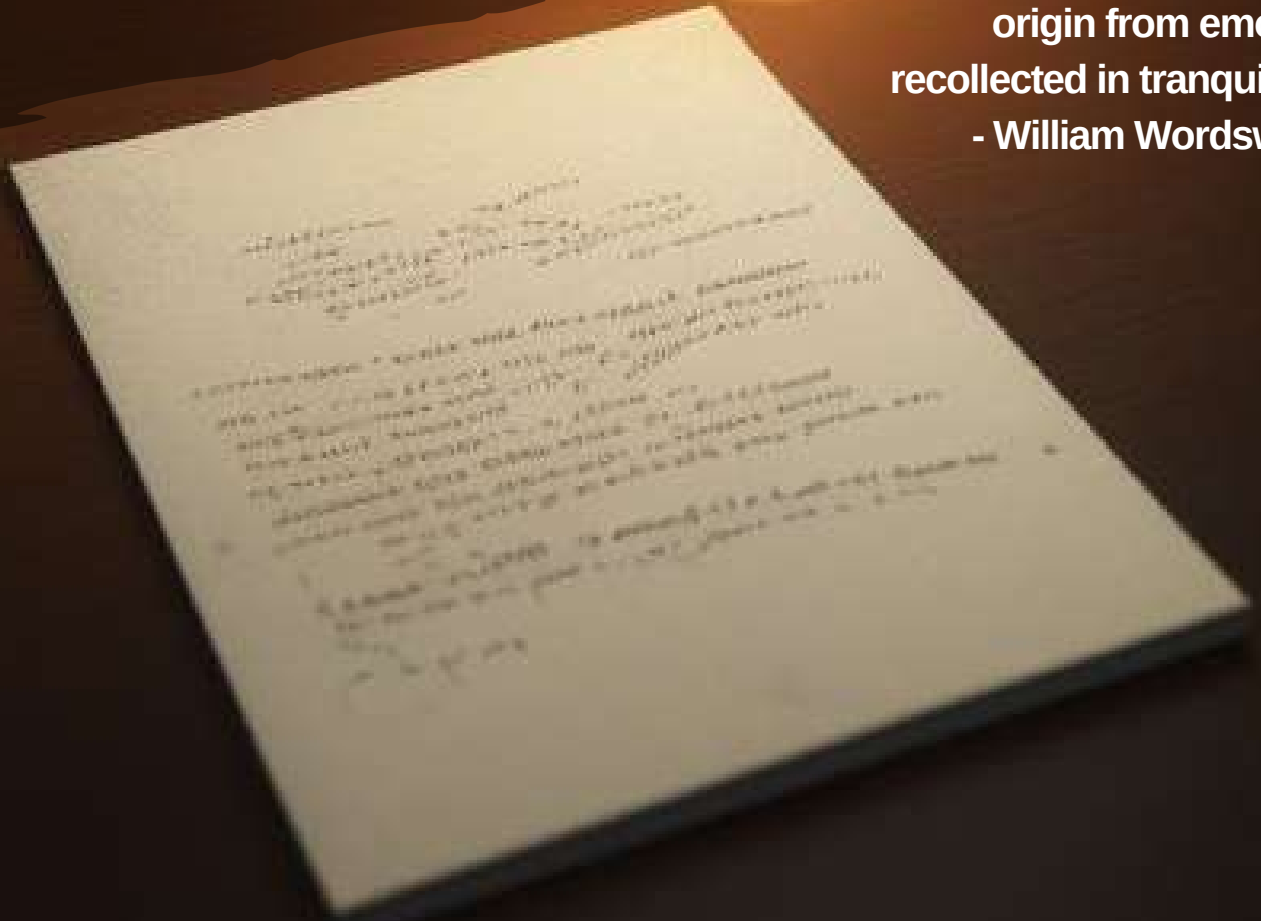
-রবীন্দ্রনাথ ঠাকুর

"कविता के अद्भुत सौंदर्य का श्रेय कविता के श्रेष्ठ संगीती को जाता है, जो सूर की
तरह आकाश में अपने गीत गाते हैं।"

-मुंशी प्रेमचंद

POEMS

"Poetry is the
spontaneous overflow
of powerful
feelings: it takes its
origin from emotion
recollected in tranquility."
- William Wordsworth



बेटियां

बेटी बोझ क्यो होती
कानून किस ने बनाया है
जन्म लेने से पहले
क्यो मिट्टी मे मिलाया है

ना होती बेटियां दुनिया मे
तो माँ, बहन किसे कहते
ना होती बेटियां जग मे
तो नरम दिल किसे कहते

बेटियों से ही होती है
हर घर मे रहमते
फिर भी ज़ालिम दुनिया
उसे बोझ क्यो समझते

बेटी होती है खुदा की नेमत
ऐ दुनिया वालो बेटी को संभालो
बेटी होती है बाप की इज़ज़त
उसका नाम गालियों मे मत डाल

- शाहजबीं



Shahjabin,
1st year,
CSE

NEVER GIVE UP

In the face of challenges, big or small, when you feel like you're about to fall,
Remember this simple truth Never give up, keep going every day.

Life's journey may have twists and turns,
But it's in those moments resilience is earned.

When hurdles seem too high to leap,
Summon the strength to take that leap.

Though the path may be filled with doubt,
Believe in yourself, there's no need to pout.

When life knocks you down, stand up tall, Brush off the dust-
and give it your all.

For every failure is a stepping stone,
To a brighter future yet to be known.

Remember the stories of those who inspire,
The ones who faced failure but didn't tire.

From Edison's light bulb to rowling's fame,
They never gave up or played the blame game.

So, keep pushing forward, don't lose sight,
Embrace the challenges with all your might.

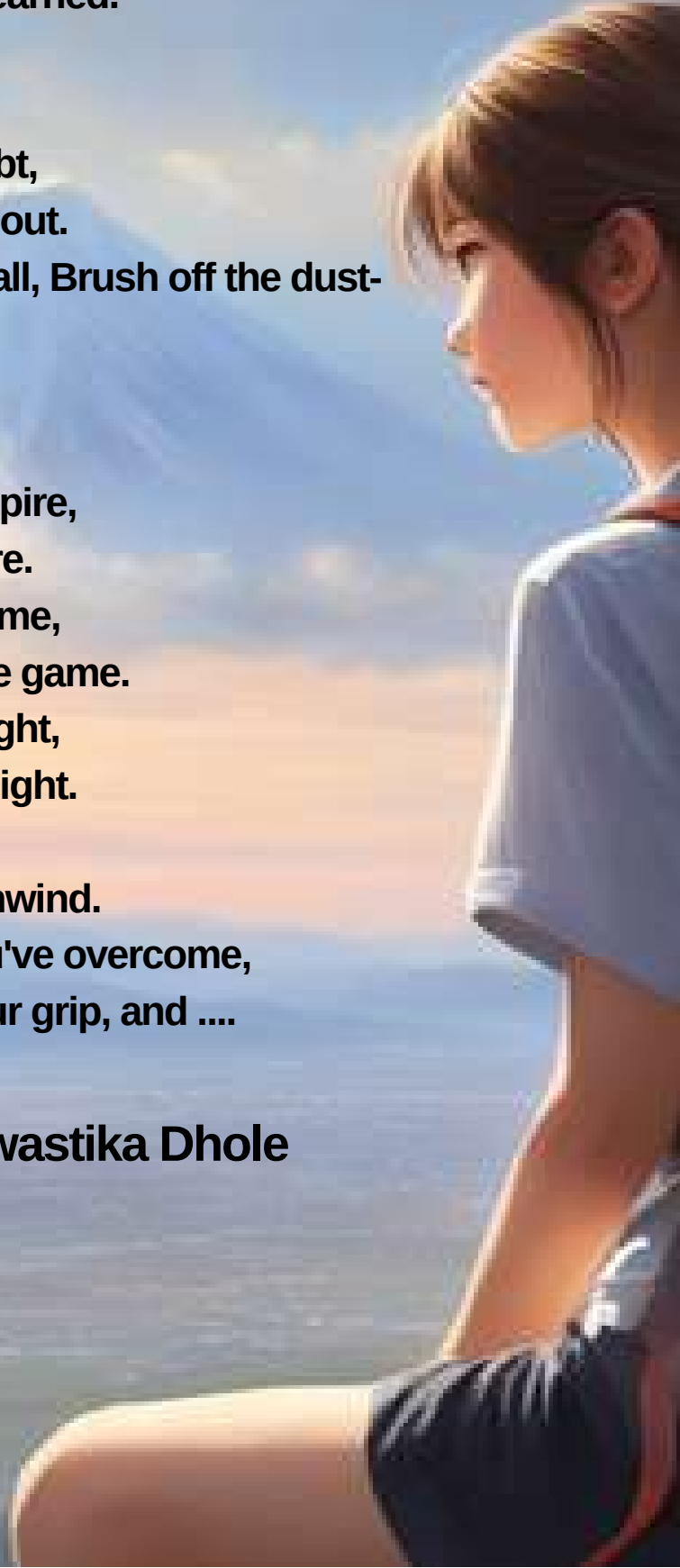
For in the face of adversity, you'll find,
the strength within you to shine and unwind.

In this life success is sweeter when you've overcome,
So, hold your head high, never lose your grip, and
never, ever, give up on your ship.

-Swastika Dhole



Swastika Dhole,
2nd year,
CSE



CUPPA-COFFEE

I want a proper cuppa coffee from a proper coffee pot
Bring it at 6 am, dot
Not a cold cup, the cup must be hot
Even better with an espresso shot
I'll have it beside my forget-me-not
After a tiring night, it just hits the spot...
Beware of my wrath if I see, you forgot
Must be a proper cuppa coffee, from a proper coffee pot

-Ankita Pal

Ankita Pal,
3rd year,
CSE



শ্রীকৃষ্ণ-বন্দনা

গগনে উঠেছে সুর, নিধিবনে ভ্রমে বংশীধারী,
রাস-বসন্তে মুখরিত বাতাস, তিনি জগৎ ব্রহ্মচারী।
যে গানে কৃষ্ণ তুমি নেই, দিনশেষে কেমনে গাইবো সে গান!
বাঁশির সুরে মূর্ছনায় মূর্ছিত করে রেখেছো জগৎশুদ্ধ প্রাণ।
পাষণ হৃদয়েও প্রেম জাগিয়ে, যার সপ্তসাগর জয়,
অপরূপ সুন্দর সেই ত্রিকালদর্শী, তাঁরই নামে পাপক্ষয়।
যার প্রেমে পাগলিনী রাধা, উন্মাদিনী বাঁশির সুরে,
অমর সে ভালোবাসা রাধাকৃষ্ণ নামে, হৃদয় সোপান জুড়ে।
ময়ূর পেখম মেলে, যার পুষ্প-ন্যায় লাবণ্যে ভরে ভুবন
রাধার করুন দৃষ্টিতে, তারই কৃষ্ণ করে প্রেম-অন্বেষণ।
জগৎ-কল্যাণের হিতে তুমি কুরুক্ষেত্রে করেছিলে ধর্মের সূচনা,
চরণে তুমি ঠাঁই দিও প্রভু, যদি হৃদয় থেকে করি তোমার উপাসনা।।

- রুদ্রসোম শী



Rudrosom Shee,
3rd year,
CSE



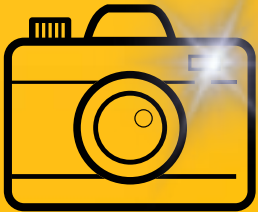
PHOTOGRAPHY

"It's not enough to just own a camera.

Everyone owns a camera.

**To be a photographer, you must understand,
appreciate, and harness the power you hold!"**

- Mark Denman





“THE NORWEGIAN SUNSET”

Beneath the Nordic sky so wide and grand,
The Norwegian sunset paints the land.
A canvas of fiery hues, a brilliant sight,
Illuminating the tranquil Arctic night.

The fjords reflect the golden glow,
As the sun dips low, casting a warm halo.
Mountains and forests stand tall and still,
In the tranquil dusk, time seems to stand chill.





A moment of magic, a serene display,
In Norway's twilight, we wish to stay.
The sun may set, but its beauty remains,
In the heart of Norway, where nature reigns.

Dr. Anindita Mukherjee
HOD, CSE Department





“LUMINANCE AT NIGHT”

**In the velvet shroud of night's embrace,
Luminance awakens, a soft and gentle grace.
Stars above, like diamonds in the vast expanse,
Bathing the world in a cosmic, silent dance.**

**City lights, a neon river's flow,
Luminance at night, a vibrant, rhythmic show.
A moonbeam's touch on streets below,
Guiding us through the darkness as we go.**



**Hossainara Begum,
Assistant Professor ,
CSE Department**



“THE PINK SUNSET”

**A pink sunset's tender, fleeting kiss,
In the evening's hush, pure, and bliss.
Colors fade, day turns to night,
A moment's beauty, pure and bright.**



Shreya Das
4th year,
CSE



“THE WILD FLOWERS”

Amidst the wilderness, they gleam so bright,
Wild flowers bloom in pure delight.
In meadows and forests, they enchant,
A vibrant display, nature's own plant.



Soumik Mukherjee
4th year,
CSE



“TRANQUIL PARADISE”

**Beside the tranquil lake, so still,
Nature's beauty has a special thrill.
Rippling waters, reflections, and grace,
A serene escape in a peaceful space.**

**Debasrita Chakraborty,
2nd year,
CSE**





“NATURE’S SYMPHONY”

**By the tranquil bank of the Ganga's flow,
Where sacred waters meander and glow.
In the heart of India, ancient and grand,
A symbol of spirituality, a timeless strand.**

**Falguni Mondal,
2nd year,
CSE**

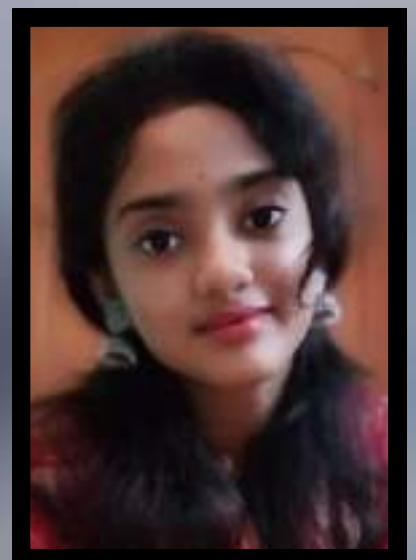




“THE TWO BIRDS”

**Two birds take flight in the morning's glow,
In sync, they soar, together they go.
Their wings of freedom, a wondrous sight,
In perfect harmony, they take their flight.**

**Swastika Dhole,
2nd year,
CSE**





“MAA DURGA”

Maa Durga, fierce and divine,
In her strength, all evils resign.
Ten arms, each with power and grace,
She's the goddess of love in every place.

Soumyajit Jana,
2nd year,
CSE

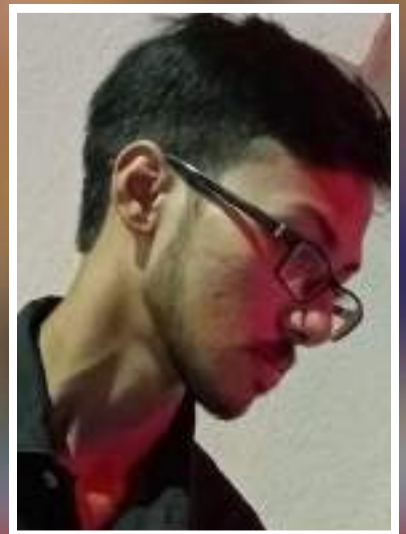




“UMA”

Uma, divine in radiance and grace,
A celestial smile upon her face.
Daughter of the mountains, pure and true,
In your name, our hearts find their cue.

Shiva's beloved, his eternal bride,
By his side, your love does reside.
Goddess of strength, compassion, and might,
Guiding us through both day and night.



Arkapravo Chakraborty
2nd year,
CSE



“A PLACE OF PEACE”

Belur Math by the Ganges' side,
Where wisdom and love do reside,
A place of peace and inner grace,
In its embrace, we find our place.

Arijit Ghosal
2nd year,
CSE





“THE TANGLED BRANCHES”

**"The tangled branches overhead,
In nature's art, they're finely spread.
Amidst their leaves, a secret weaves,
A world of wonder, life perceives."**



**Soham Bag
2nd year,
CSE**



“THE NATURE”

**“In meadows wild, where breezes play,
Green wildflowers dance the day away.
Their leaves, a canvas for the sun,
A vibrant dance that's just begun.”**

**Koyana Datta
2nd year,CSE**



RIDDLES



"Riddles are the most primitive form of poetry and the earliest form of storytelling."

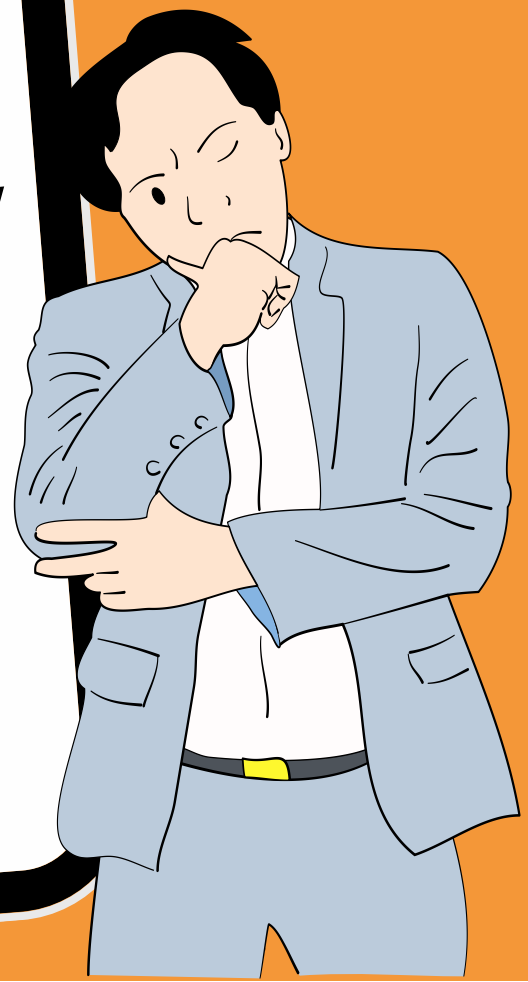
- Jane Yolen

A cluster of white puzzle pieces is scattered in the top-left corner of the orange background.

RIDDLE 1

A large, stylized smartphone with a black border and a white screen is tilted slightly to the left. The screen contains the riddle text.

I'm a
JavaScript
framework for
building user
interfaces,
developed by
Facebook.
What am I?



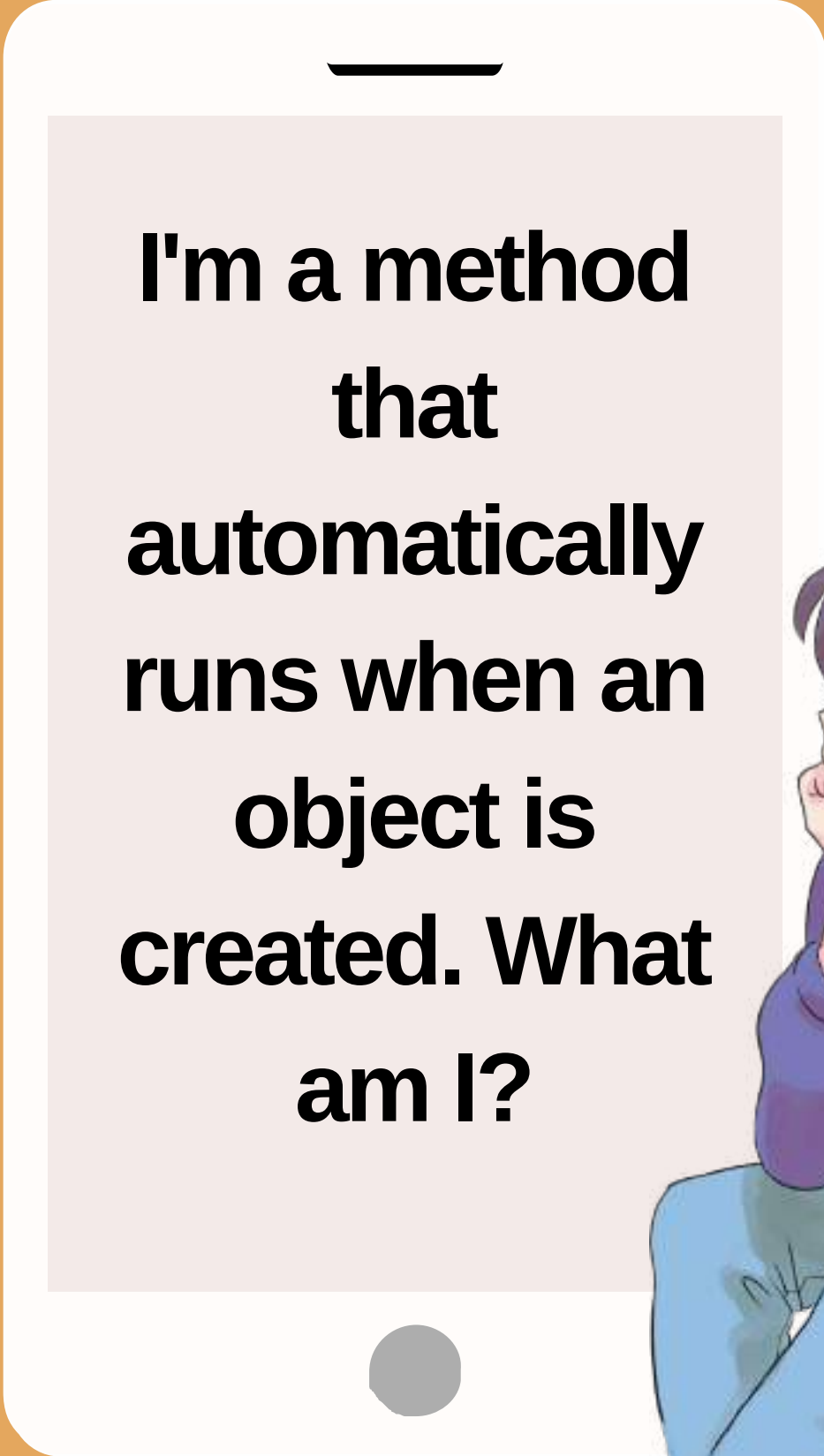
RIDDLE 2



**"In your computer's world, I'm the king
Windows calls me 'Task
Manager,' in Linux, I swing.
What am I? Give it a fling."**

A cluster of white puzzle pieces is scattered in the top-left corner of the page.

RIDDLE 3

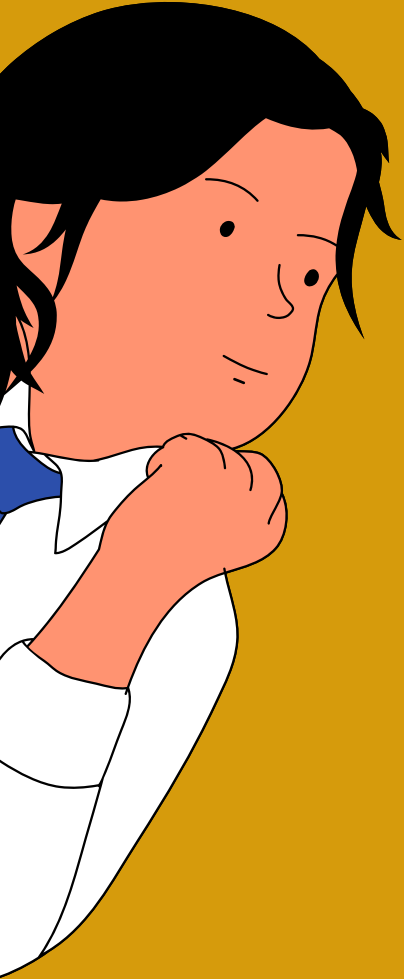
A white smartphone is shown vertically, with the riddle text displayed on its screen.

**I'm a method
that
automatically
runs when an
object is
created. What
am I?**





RIDDLE 4



**In a world of wires,
circuits, and code,
I learn and adapt
as problems unfold.**

**A digital mind,
without a doubt,
What am I, can
you figure it out?**



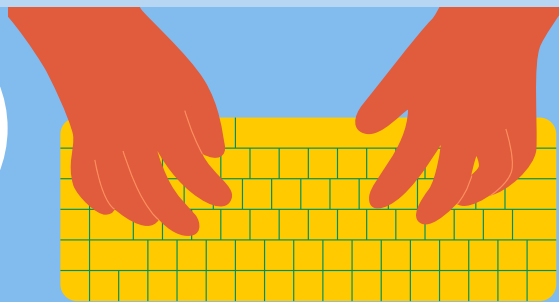
RIDDLE 5



**I can't be
accessed
directly,
but I store
the
memory
address of
an object.
What am I?**



"CODE RIDDLES: CAN YOU PREDICT THE OUTPUT?"




```
Q1.#include<stdio.h>
```

```
int main() {
```

```
int x=printf("welcome");
```

```
printf("%d", x);
```

```
return 0;
```

```
}
```

Hints:(Output is not welcome)



Q2. #include<stdio.h>

```
int main() {  
    int x=076;  
    printf("%d",x);  
    return 0;  
}
```

**Hints:(Output is not 076,76 or
C.E)**



Q3 `.#include<stdio.h>`

```
int main() {  
    int x=4;  
    if(x=3);  
    printf("Hello");  
    else  
    printf("Hii");  
    return 0;  
}
```

Hints:(Output is not Hello,Hii)



```
Q4.#include<stdio.h>
```

```
int main() {  
    int a,b,c;  
    a=sizeof(47);  
    b=sizeof('A');  
    c=sizeof(3.14);  
    printf("%d",a);  
    printf("%d",b);  
    printf("%d",c);  
    return 0;  
} Hints:(None)
```





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

“ This magazine is not just a reflection; it's a projection of the bright minds, bold ideas, and boundless possibilities that thrive within the walls of our institution. ”



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