NOVABYTE

COMPUTER SCIENCE

NEWSLETTER

Volume II
(2023-2024)

COMPUTER SCIENCE DEPARTMENT

Established in 1991-92 with just three computers, the Department of Computer Science at Kalindi College has emerged as a trailblazer in the field.

Looking ahead, the department aims to lead in shaping the future of computer science through innovation and collaboration, aligning with the Government of India's Viksit Bharat 2047 mission. Embracing cutting-edge technologies like Artificial Intelligence (AI), it seeks to harness their potential for future applications.

Beyond academics, the department prioritizes holistic development and experiential learning, organizing various activities to nurture students' talents and interests. Orientation Programmes, Inter and Intra college events, Student Awareness Programmes, and Academic Conferences are among the activities aimed at fostering personal growth and development.

With a focus on innovation, collaboration, and excellence, the department remains dedicated to staying at the forefront of technological advancements and preparing students to become leaders in their fields. With a dynamic faculty, state-of-the-art infrastructure, and a passion for innovation, the Department of Computer Science at Kalindi College is poised to continue shaping the future of technology and making a meaningful impact on society. Join in the journey as they push the boundaries of possibility, challenge the status quo, and redefine the role of computer science in shaping a better tomorrow.

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FROM PRINCIPAL's DESK

In the words of Steve Jobs, "Innovation distinguishes between a leader and a follower." I hope the students of the Computer Science Department strive to be leaders in their field, constantly seek out new ideas and pioneer solutions that shape the future of technology, and continue to navigate through the ever-evolving landscape of technology and innovation. It is imperative to uphold the principles of excellence, perseverance, and collaboration. In line with the vision of Viksit Bharat, Technology is a tool that can uplift nations. Through the collective efforts, create a brighter and more inclusive future for all. The Computer Science Department stands as a beacon of knowledge and discovery, committed to pushing the boundaries of what is possible in the realm of computing. I am honoured to witness the collaborative efforts of our students and faculty, who work tirelessly to foster a culture of innovation and learning. Their unwavering commitment to the betterment of their peers exemplifies the spirit of teamwork and camaraderie that defines Computer Science Department. As we reflect on their achievements, I am confident that our students will continue to soar to greater heights in the years to come and will leave an indelible mark in the field of computer science.

My heartfelt best wishes go out to the entire department, including our esteemed teachers and exceptional students. Together, let us continue to inspire and empower the next generation of leaders in technology.

Prof. Meena Charanda
(Offg. Principal)

ARTICLES

VIKSIT BHARAT

@2047

In the grand symphony of India's destiny, the Government, with eloquence akin to celestial verses, unveils the opulent narrative of "Viksit Bharat" – a tapestry of aspiration destined to transfigure the nation into the very zenith of development, as the centenary echoes in 2047. This odyssey of vision, an iridescent tapestry woven across economic, social, technological, and environmental realms, evokes a multi-faceted transcendence, a magnum opus in the anthology of progress.

At its conceptual nucleus, Viksit Bharat venerates the doctrine of holistic advancement, forging a societal paradigm where every stratum ascends, rendering extant disparities mere echoes of yesterday ears. This illustrious vision orchestrates a symphony, deftly harmonising economic dynamism with the custodianship of the environment, creating a melody of sustainable prosperity resonating through the corridors of time.

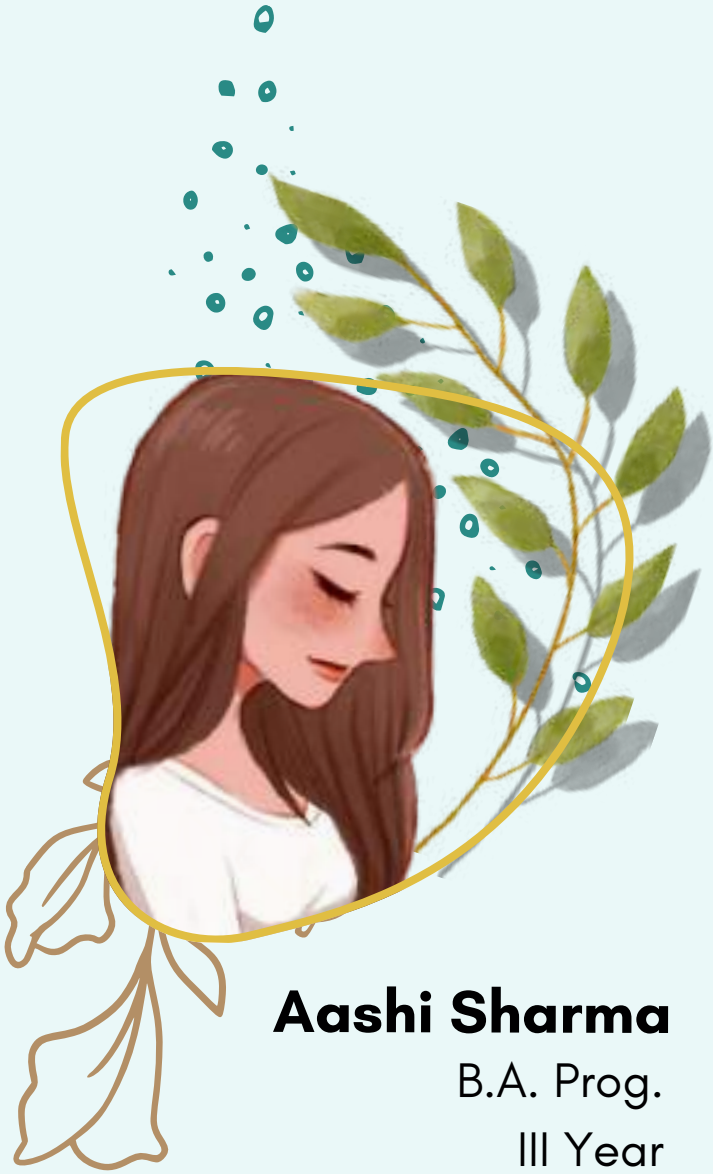
Economic renaissance, a cardinal facet, becomes a divine ode to innovation, entrepreneurship, and global preeminence. The envisaged kaleidoscopic economic tapestry, intricately interwoven with technological prowess, charts an indomitable trajectory, navigating the challenges of the present with visionary finesse.

Social metamorphosis, an equally pivotal bastion, paints an epic canvas accentuating education, healthcare, and benevolence. Viksit Bharat aspires to weave a societal tapestry where economic prosperity and social empowerment dance in harmonious synchrony, crafting an equitable milieu for every denizen.

In the realm of technology, Viksit Bharat emerges as an audacious maestro, orchestrating India's ascent to the pinnacles of global leadership. A resplendent future unfurls where the nation becomes the crucible of scientific marvels, technological frontiers, and avant-garde innovations, reshaping the very narrative of progress on the global stage.

As the centennial juncture of independence beckons, Viksit Bharat stands as an opulent proclamation, an alchemy of resolve, transmuting the aspirations of the populace into a resplendent tapestry of opulence and vibrancy. It heralds a future India, radiant and triumphant, etching its narrative in the annals of 2047 with unparalleled magnificence.

Harmony with the environment, an indelible tenet, signifies an ardent commitment to the equipoise between development and ecological sanctity. The vision advocates for eco-centric paradigms, renewable energy imperatives, and proactive measures, a pledge to assuage the deleterious impacts of climate change.



Aashi Sharma
B.A. Prog.
III Year

VIKSIT BHARAT 2047:

Forging a Bold and Visionary Future

In the corridors of time, we envisage a resplendent India – Viksit Bharat – in the year 2047. A nation that doesn't merely stride into the future; it charges forward with a bold and visionary agenda, leaving an indelible mark on the global stage.

1. A Shimmering Urban Landscape

Picture a landscape adorned with gleaming metropolises, not just as symbols of economic prowess, but as testaments to a nation that seamlessly integrates state-of-the-art infrastructure with sustainable urban planning. Viksit Bharat in 2047 thrives on the idea that progress need not come at the cost of our environment. A harmonious balance is struck, where concrete jungles coexist with lush greenery, redefining the very essence of modern urban living.

2. Education: Empowering Minds, Igniting Progress

Picture a landscape adorned with gleaming metropolises, not just as symbols of economic prowess, but as testaments to a nation that seamlessly integrates state-of-the-art infrastructure with sustainable urban planning. Viksit Bharat in 2047 thrives on the idea that progress need not come at the cost of our environment. A harmonious balance is struck, where concrete jungles coexist with lush greenery, redefining the very essence of modern urban living.

3. Healthcare Revolution: Innovate, Prevent, Thrives

Picture a landscape adorned with gleaming metropolises, not just as symbols of economic prowess, but as testaments to a nation that seamlessly integrates state-of-the-art infrastructure with sustainable urban planning. Viksit Bharat in 2047 thrives on the idea that progress need not come at the cost of our environment. A harmonious balance is struck, where concrete jungles coexist with lush greenery, redefining the very essence of modern urban living.

4. Transparent Governance: A Democracy Amplified

The governance structure of Viksit Bharat is transparent, responsive, and, most importantly, participatory. Citizens actively engage in decision-making, shaping policies that echo the diverse voices of the people. This is not just a government; it's a democracy amplified, reflecting the collective will of the nation.

5. Economic Tapestry: Innovation, Entrepreneurship, and Equity

The economic landscape is a tapestry woven with threads of innovation, entrepreneurship, and equitable wealth distribution. Viksit Bharat in 2047 boasts a flourishing marketplace that uplifts the entire nation. This is not just prosperity; it's shared prosperity. Every segment of society benefits, fostering an economic ecosystem that's not just robust but inherently fair.

6. Cultural Harmony: Celebrating Diversity, Forging Unity

In 2047, Viksit Bharat celebrates its rich cultural tapestry. It's a celebration of diversity that forges a united national identity. Equality is not just a concept; it's a lived reality. Every individual, regardless of their background, enjoys the fruits of progress. Social harmony is not an ideal; it's the very fabric of society.

7. Environmental Consciousness: Sustainability as a Guiding Light

Viksit Bharat's collective psyche is ingrained with environmental consciousness. Sustainability isn't just a goal; it's a guiding principle in every facet of life. From urban planning to daily practices, the people actively contribute to preserving the environment for future generations. In 2047, India stands as a global exemplar in responsible and sustainable living.

In Conclusion

In this tapestry of progress and unity, Viksit Bharat emerges as a beacon, not just for the nation but for the world. It's a bold and visionary India that confronts the future with a unique blend of tradition, innovation, and unwavering optimism. This is not just a vision; it's a roadmap for a nation destined to leave an indelible imprint on the world stage. Viksit Bharat 2047 is not just a dream; it's a reality in the making.

AASHI SHARMA
B.A. Prog.
III Year

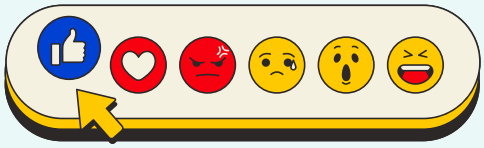
SOCIAL MEDIA
: THE SOCIAL DILEMMA

Do you ever feel guilty about amount of time you spend at your phones/computer each day?
Do you feel bad that you have wasted an hour watching videos on YouTube or tweeting instead of doing something worthwhile? Do you sometimes feel that you are wasting away your life by looking at other people's profile pictures or their feeds on Instagram instead of doing valuable for which you can feel proud of.

According to reports-
People aged 18 to 24 check their phones on average of 74 times per day.... which is EXCESSIVE. When it comes to social media I believe it is like horns of dilemma without which life is impossible. When I read about scams, suicides, cyber bullying, hacking and so-called trends, the reels-photo-shopped by so-called influencers in today's scenario, it disturbs me immensely to see inaccurate beliefs they are setting for young minds.

Social media turning us into introverts? Is it the reason fights among teenagers and parents are increasing? .... which is usually blamed on our adolescence till now? It is why students scoring Low marks? Is it causing anxiety and depression among youngsters specially? Yes, it is according to studies, Anxiety and Depression rates in young people have risen 70 % in past 25 years. With social media in frame, I feel pressure on us to enjoy our lives is unavoidable. After hearing "Social media"- what comes to my mind is neglecting and faking personal life, And fitting yourself in order to show off your so-called cool lifestyle. There is a need of balance between internet social network and real life social network.

In my opinion, don't be a social media victim- but learn how to use tools efficiently without let them ruin your lives. Be safe and alert.



"ENGAGE, ENLIGHTEN, ENCOURAGE ! "

Kashish Madan
B.Sc. (H) Comp. Sci.
III Year

VIKSIT BHARAT 2047:

A Vision for a Flourishing Nation

In the year 2047, India envisions a transformed landscape, marked by progress, innovation, and inclusivity. "Viksit Bharat" or Developed India is not merely a goal but a journey towards holistic development. Let's delve into the key facets shaping this vision.

Economic Prosperity:

Viksit Bharat aims for economic empowerment through sustainable growth. Cutting-edge technologies, robust infrastructure, and strategic investments propel the nation into a global economic powerhouse. The focus is on inclusive policies that uplift all segments of society, narrowing the wealth gap.

Sustainable Living:

The commitment to environmental stewardship defines Viksit Bharat. Green initiatives, renewable energy sources, and eco-friendly practices are integral to daily life. The nation is a shining example of harmonious coexistence with nature, ensuring a thriving environment for future generations.

Technological Advancements:

Embracing the technological revolution, Viksit Bharat stands at the forefront of innovation. From artificial intelligence to space exploration, the nation invests in cutting-edge research and development. A digital ecosystem fosters connectivity, efficiency, and convenience for all citizens.

Cultural Renaissance:

Preserving the rich tapestry of India's diverse cultures, Viksit Bharat celebrates its heritage while embracing modernity. Cultural exchange programs, art festivals, and historical preservation efforts ensure that the nation's identity remains vibrant and inclusive.

Inclusive Education:

Education is the cornerstone of Viksit Bharat. Accessible and quality education empowers every citizen, fostering critical thinking and creativity. Scholarships, vocational training, and digital literacy initiatives bridge gaps, ensuring that no one is left behind.

Healthcare for All:

A robust healthcare system prioritizes the well-being of citizens. Cutting-edge medical facilities, preventive care programs, and a focus on mental health create a holistic approach to healthcare, contributing to a healthier and happier population.

Social Harmony:

Viksit Bharat thrives on unity in diversity. Social harmony initiatives promote tolerance, understanding, and acceptance. Through community engagement and dialogue, the nation builds bridges, fostering a sense of belonging for all its citizens.

In conclusion, Viksit Bharat @2047 is not just a vision but a commitment to creating a nation that blends tradition with modernity, prosperity with compassion, and progress with inclusivity. As the journey unfolds, the world watches as India emerges as a beacon of hope, resilience, and sustained development.

VARSHA

B.Sc. (H) Comp. Sci.

II year

UNTANGLING THE THREADS:

Understanding the Interconnections of Trauma, Bullying, Depression, and Anxiety in Mental Health

In the realm of mental health, the intertwining threads of trauma, bullying, depression, and anxiety form a complex tapestry that affects millions of individuals worldwide. Each component carries its own weight, yet together, they can create a formidable barrier to well-being and happiness.

Trauma, often stemming from experiences of abuse, neglect, or significant life events, can leave deep emotional scars that reverberate throughout a person's life. Whether it's the trauma of war, childhood adversity, or a sudden loss, the impact can be profound, leading to a range of psychological challenges.

Bullying, both in physical and digital forms, can exacerbate trauma and contribute to a downward spiral of mental health issues. The relentless torment and social isolation inflicted by bullies can erode self-esteem, fuel feelings of worthlessness, and trigger anxiety and depression. Moreover, the pervasiveness of cyber-bullying in the digital age has added a new dimension to this problem, amplifying its reach and intensity.

Depression, characterized by persistent feelings of sadness, hopelessness, and disinterest in activities, is a common outcome of trauma and bullying. It's a heavy burden that weighs on the mind and soul, sapping energy and robbing individuals of their zest for life. Left unchecked, depression can spiral into a debilitating condition, making it difficult to function in daily life and maintain healthy relationships.

Anxiety, often a companion to depression, manifests as persistent worry, fear, and apprehension about the future. Trauma and bullying can exacerbate these feelings, heightening

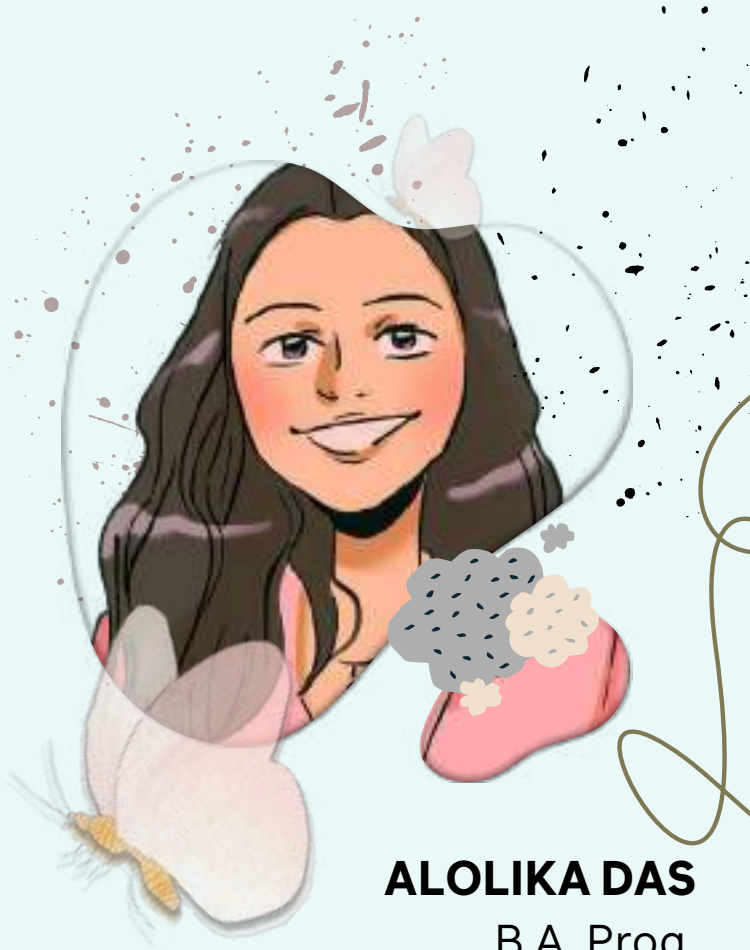
the sense of vulnerability and uncertainty. Whether it's generalized anxiety disorder, social anxiety, or panic attacks, the constant barrage of anxious thoughts can be overwhelming, making it challenging to find peace of mind.

Addressing the complex interplay of trauma, bullying, depression, and anxiety requires a multifaceted approach that acknowledges the interconnection of these issues. It begins with creating safe and supportive environments where individuals feel empowered to seek help without fear of judgment or stigma.

Early intervention is crucial, whether through therapy, counseling, or support groups, to provide individuals with the tools and coping mechanisms they need to navigate their challenges. Additionally, fostering resilience and building strong social support networks can help buffer the effects of trauma and bullying, providing a lifeline of support during difficult times.

Education and awareness are also essential in dismantling the stigma surrounding mental health issues, fostering empathy, and promoting understanding. By destigmatizing discussions around trauma, bullying, depression, and anxiety, we can create a culture of openness and acceptance where individuals feel validated and supported in their journey towards healing.

Ultimately, by recognizing the interconnected nature of these issues and working together to address them, we can pave the way for a brighter, more compassionate future where mental health is prioritized, and everyone has the opportunity to thrive.



ALOLIKA DAS
B.A. Prog.
III year

VIKSIT BHARAT 2047:

A Journey of Transformation and Triumph

In the annals of history, India stands as a timeless testament to resilience, wisdom, and cultural richness. From the ancient civilizations along the banks of the mighty Indus and the sacred Ganges to the eras of empires and dynasties that shaped its destiny, India's journey has been one of enduring glory and profound transformation.

As the world turned its gaze to the year 2047, India will emerge not just as a nation but as a powerhouse of innovation and progress, a beacon of hope and inspiration for the global community. The path to becoming Viksit Bharat, was paved with the dedication and determination of its people, who embraced change while honoring the timeless values that define their identity.

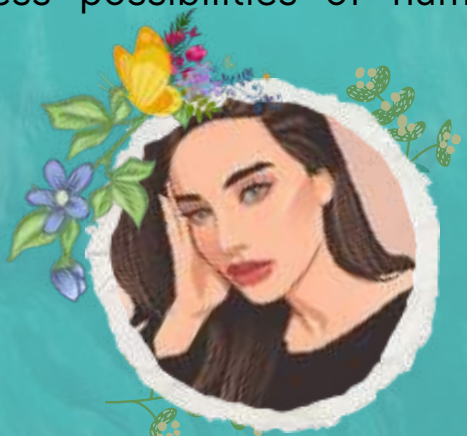
The journey towards Viksit Bharat began with a vision—a vision of a nation that harnesses the potential of its people and resources to create a future of prosperity and well-being for all. It was a vision that transcended political boundaries and ideological differences, uniting India's diverse population in a shared pursuit of excellence.

At the heart of India's transformation was its unwavering commitment to education and innovation, recognizing that knowledge is the key to unlocking progress. The nation made significant investments in its education system, ensuring that every child had access to quality schooling and opportunities for higher learning.

The investment in human capital laid the foundation for India's technological progress and economic growth, empowering citizens to excel in fields ranging from science and engineering to business and the arts.

But India's journey towards development was not without its challenges. It required bold reforms and visionary leadership to navigate the complexities of a rapidly changing world while staying true to its cultural heritage. From economic liberalization and infrastructure development to social welfare programs and environmental conservation, India embarked on a comprehensive agenda of reform, guided by the principles of inclusivity, sustainability, and social justice.

Today, Viksit Bharat stands as a shining example of what can be achieved when a nation dares to dream and dares to act. Its cities pulse with energy and innovation, its rural communities thrive with opportunities and connectivity, and its cultural heritage continues to inspire and captivate the world. From the gleaming skyscrapers of its metropolitan centers to the pristine landscapes of its natural reserves, Viksit Bharat is a testament to the indomitable spirit of its people and the limitless possibilities of human endeavor.



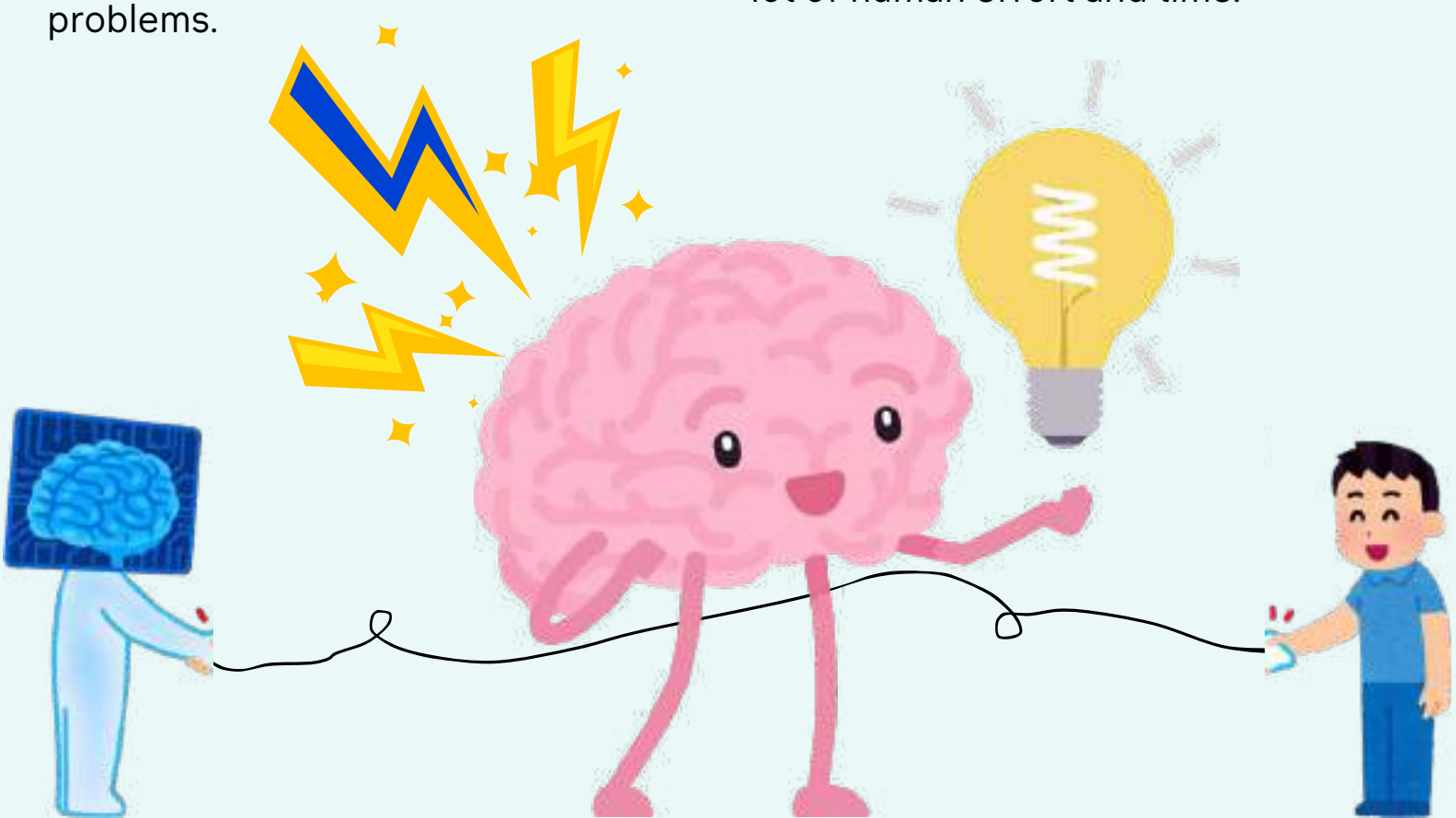
ALOLIKA DAS
B.A. Prog.
III year

ARTIFICIAL INTELLIGENCE

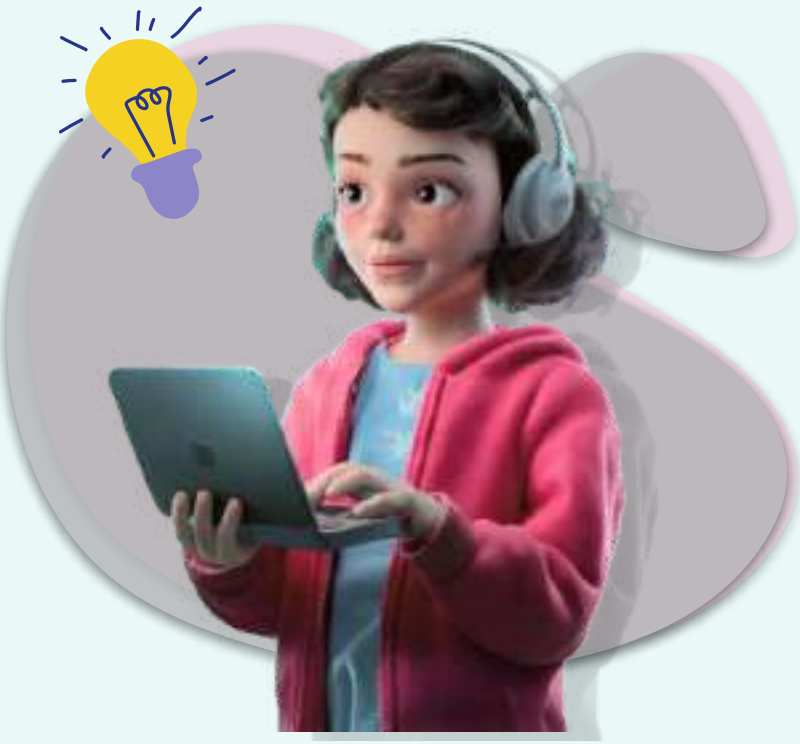
Artificial Intelligence is the intelligence possessed by the machines under which they can perform various functions with human help. With the help of A.I, machines will be able to learn, solve problems, plan things, think, etc. Artificial Intelligence, for example, is the simulation of human intelligence by machines. In the field of technology, Artificial Intelligence is evolving rapidly day by day and it is believed that in the near future, artificial intelligence is going to change human life very drastically and will most probably end all the crises of the world by sorting out the major problems.

Artificial Intelligence Applications :

AI is widely used in the field of healthcare. Companies are attempting to develop technologies that will allow for rapid diagnosis. Artificial Intelligence would be able to operate on patients without the need for human oversight. Surgical procedures based on technology are already being performed.Artificial Intelligence would save a lot of our time. The use of robots would decrease human labor. For example, in industries robots are used which have saved a lot of human effort and time.



In the field of education, AI has the potential to be very effective. It can bring innovative ways of teaching students with the help of which students will be able to learn the concepts better. Artificial intelligence is the future of innovative technology as we can use it in many fields. For example, it can be used in the Military sector, Industrial sector, Automobiles, etc. In the coming years, we will be able to see more applications of AI as this technology is evolving day by day



- **Marketing:** Artificial Intelligence provides a deep knowledge of consumers and potential clients to the marketers by enabling them to deliver information at the right time. Through AI solutions, the marketers can refine their campaigns and strategies.
- **Agriculture:** AI technology can be used to detect diseases in plants, pests, and poor plant nutrition. With the help of AI, farmers can analyze the weather conditions, temperature, water usage, and condition of the soil.
- **Banking:** Fraudulent activities can be detected through AI solutions. AI bots, digital payment advisers can create a high quality of service.

- **Health Care:** Artificial Intelligence can surpass human cognition in the analysis, diagnosis, and complication of complicated medical data.

History of Artificial IntelligenceArtificial Intelligence may seem to be a new technology but if we do a bit of research, we will find that it has roots deep in the past. In Greek Mythology, it is said that the concepts of AI were used. The model of Artificial neurons was first brought forward in 1943 by Warren McCulloch and Walter Pits. After seven years, in 1950, a research paper related to AI was published by Alan Turing which was titled 'Computer Machinery and Intelligence. The term Artificial Intelligence was first coined in 1956 by John McCarthy, who is known as the father of Artificial Intelligence.

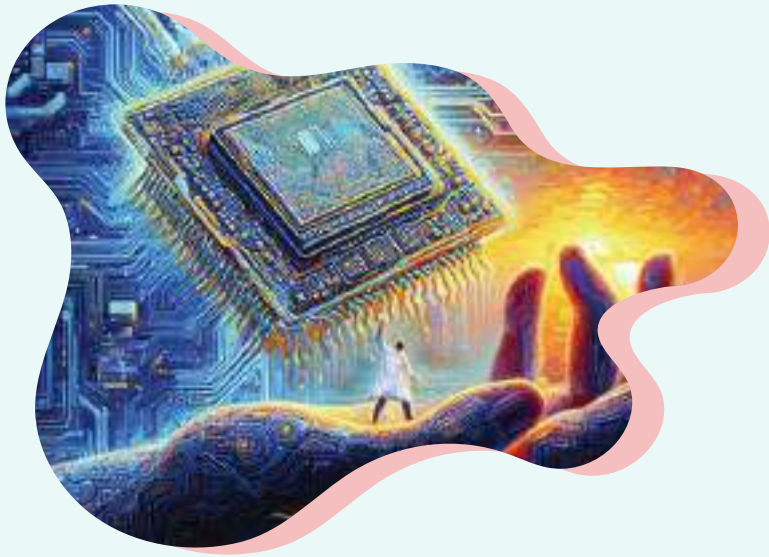
To conclude, we can say that Artificial Intelligence will be the future of the world. As per the experts, we won't be able to separate ourselves from this technology as it would become an integral part of our lives shortly. AI would change the way we live in this world. This technology would prove to be revolutionary because it will change our lives for good.

Branches of Artificial Intelligence :

Knowledge, Engineering Robotics, Machines Learning, Natural Language Processing. Types of Artificial Intelligence. Artificial Intelligence is categorized in two types based on capabilities and functionalities.:-
Artificial Intelligence Type-1 and **Artificial Intelligence Type-2**

Artificial Intelligence Type-1 Narrow AI (weak AI): This is designed to perform a specific task with intelligence.

It is termed as weak AI because it cannot perform beyond its limitations. It is trained to do a specific task. Some examples of Narrow AI are facial recognition (Siri in Apple phones), speech, and image recognition. IBM's Watson supercomputer, self-driving cars, playing chess, and solving equations are also some of the examples of weak AI.



- **Super AI:** Super AI is a type of intelligence of systems in which machines can surpass human intelligence and can perform any cognitive task better than humans. The main features of strong AI would be the ability to think, reason, solve puzzles, make judgments, plan and communicate on its own. The creation of strong AI might be the biggest revolution in human history
- **General AI (AGI or strong AI)**: This system can perform nearly every cognitive task as efficiently as humans can do. The main characteristic of general AI is to make a system that can think like a human on its own. This is a long-term goal of many researchers to create such machines.

Artificial Intelligence Type-2 Reactive Machines: These machines are the basic types of AI. Such AI systems focus only on current situations and react as per the best possible action. They do not store memories for future actions. IBM's deep blue system and Google's Alpha go are the examples of reactive machines.

- **Self-Awareness:** Self-awareness AI is the future of artificial intelligence. These machines can outsmart the humans. If these machines are invented then it can bring a revolution in human society.

- **Limited Memory:** These machines can store data or past memories for a short period of time. Examples are self-driving cars. They can store information to navigate the road, speed, and distance of nearby cars.

- **Theory of Mind:** These systems understand emotions, beliefs, and requirements like humans. These kinds of machines are still not invented and it's a long-term goal for the researchers to create one.

Conclusion

Artificial Intelligence will bring a huge revolution in the history of mankind. Human civilization will flourish by amplifying human intelligence with artificial intelligence, as long as we manage to keep the technology beneficial.

BHARTI
B.Sc. (H) Comp. Sci.
II Year

VIKSIT BHARAT 2047:

A Vision for a Developed India

In the pursuit of a radiant future, envisioning India's development by the year 2047 becomes a captivating journey. "**Viksit Bharat 2047**" encapsulates the perspectiveof a progressive India, thriving in prosperity, global leadership, and harmony withnature. Let us delve into the facets of this vision:

1. Prosperous Bharat in Harmony with Nature:

- The heart of Viksit Bharat lies in striking a balance between economic growth and environmental stewardship. A prosperous India should coexist harmoniously with its natural surroundings.
- Sustainable practices, conservation efforts, and green infrastructure are integral to this vision. We aim for a nation where development doesn't come at the cost of our planet.

2. Modern Infrastructure:

- Viksit Bharat envisions cutting-edge infrastructure that supports economic activities, connectivity, and quality of life.
- Robust transportation networks, smart cities, digital connectivity, and efficient utilities form the backbone of this modern India.

3. Opportunities for All Citizens and Regions:

- Inclusive growth is paramount. Viksit Bharat ensures that every citizen, regardless of their background or location, has equal access to opportunities.
- Education, healthcare, and skill development programs empower individuals to contribute to the nation's progress.

4. The Trinity of Demography, Democracy, and Diversity:

- India's strength lies in its diversity. Viksit Bharat celebrates this diversity while upholding democratic values
- Our demographic dividend, harnessed effectively, can propel us toward greatness. Unity in diversity remains our guiding principle.

5. Social Justice and Empowerment:

- Social justice isn't just a slogan; it's a governance model. Viksit Bharat ensures that all eligible citizens benefit from welfare schemes.
- Transparency, fairness, and efficient resource distribution are essential components.

6. Sabka Prayas:

- The collective effort of all Indians drives Viksit Bharat. We recognize that each individual's aspirations contribute to the nation's success.
- Sabka Prayas fosters an environment where everyone's potential is realized.

SHIVANGI GUPTA
B.Sc. (H) Comp. Sci.
II Year

INK AND INSPIRATION

Green Tech Solutions for Sustainable Development Green Tech Solutions Are Not A Luxury But a Necessity Of The Future

- Unknown

The world is standing at the crossroad with climate change and it is facing the consequence of actions of the developed countries in the past and the inaction to do anything about it now. From raging wildfire to ferocious hurricane-the time for the Call For Acton is now. The impacts of climate change are seen worldwide, particularly in Least Developed Nations and Small Island Developing Nations. The urgent need for the countries to understand Common But Differentiated Responsibility and promoting sustainable development and inclusive growth is now. Adhering to the Paris Agreement to keep the temperature from rising above 1.5 degree Celsius and implementing the objectives of United Nations Framework of Conventions on Climate Change requires innovative Technology solutions that are affordable and inclusive for the developing and under developing countries. Climate Action is also one of the seventeen sustainable goals of United Nations which makes it a priority for multilateral discussions.

Since, Climate Change is trans-national i.e, actions of one country or rather irresponsible behaviour of one nation affects other nation, talks on the same should also be held in multilateral organizations such as G20. G20 is a group of 20 major economy and accounts for two-third of the world's population which makes it the most important platform for the sharing of information and creating deep impact on the mitigation measures of Climate Change. G20 summit held in India Particularly focused on various Green Tech Solution to reduce carbon footprints and reduce the already present CHGs. Some of the best Green tech Solutions are:-

1. Development of Renewable Source of Energy: Transformation to clean energy is the demand of the hour considering the finite nature of the resources and their implication on the climate of the Earth. Development and Sharing of Technology from Developed Nations to Developing Nations is required for just and inclusive growth of the countries.

2. Green Hydrogen: Green Hydrogen is the hydrogen produced by the electrolysis of water using renewable sources of energy which makes its carbon emission almost zero. It is the cleanest source of energy and will help the nations in meeting their energy goals without hindering the development. India, in particular, also launched the Green Hydrogen Mission to become a hub of production, utilization and export of Green Hydrogen

3. Ethanol Blending: Ethanol Blending is the technique of mixing of ethanol to petrol or diesel to reduce the carbon emission and also help in reducing our dependency on other nations. Use of Bio-fuels: Bio-fuels are considered to be one the most cleanest source of energy that can help us reduce the carbon footprints as well as mitigate the climate change. This also finds mention in the Delhi Declaration.

4. LiFE: This is an initiative launched by the Prime Minister of India in Glasgow at COP26 and is one the primary objective of India. This aims in including family, household and communities to adopt climate friendly and sustainable approaches at the grass-root level.

In conclusion, the countries need to come together and only by sharing of technology and resources can we save the planet. As the stated by the theme of G20-"Vasudhev Kutumbkam" that is Earth is One Family, developed countries need to support developing countries in transitioning to cleaner energy without jeopardizing the development f the developing countries. Climate Financing and Climate Funds need to be given by developed Nations to mitigate the consequences of action done by Developed Countries only in the 1970s . Green Growth and Green Technology is the solution for just and inclusive growth of the world and what better way for India to promote and emerge as a leader of the Developing Nations.

SALONI RANA
B.Sc (H) Comp. Sci.
III Year

VIKSIT BHARAT 2047:

When India grows , the world grows ,
When India reforms , the world transforms.

Viksit Bharat is an initiative taken by the government of INDIA to make it a developed country by the centenary of the nation 2047. It's goals involve – harmony with nature, stable economy , infrastructure that supports the living of most populous country in the world. It encourages the youth to take a part in the initiative by expressing their views and concerns on development of their motherland. Main domains on which this initiative focuses are-

Economy , sustainable development , infrastructure , education and overall development of the country. This article mainly focuses on sustainable development section of the initiative providing details on where INDIA stands and what all we can do to reach BHARAT that would set example to other other countries.

CLIMATE CHANGE ---

India has witnesses the rise in temperature of around 0.7 from 1917 to 2017 . This rise in temperature is alarming as it directly impacts the quality of life. According the the report of UN – In 2019, India received 2,276 fatalities and the impact on economy of 66,172 billion US$ PPP. It also said that 17 out of 20 people in the country are vulnerable to disasters like droughts and floods .

Looking at the numbers we can come to the conclusion that it was a high time for we Indians to realize how we are destroying our birth giving mother which of outmost importance in the country.

USING NON-RENEWABLE RESOURCES WITHOUTH THINKING OF THE CONSEQUENCES ---

A study states that more than 20 thousand people were displaced from their homeland as the government wanted to build dams and use the rich resources found in the forest cover.

POLLUTING THE ENVIRONMENT ON THE NAME OF DEVELOPMENT ---

Green house gasses emissions , dumping wastes into the oceans ,degrading soil quality etc.

BY THE INITIATIVE OF VIKSIT BHARAT govt has realized that "WE ARE THE FIRST GENERATION TO ENCOUNTER AND UNDERSTAND THESE CHANGES AND THE LAST GENERATION THAT CAN DO SOMETHING ABOUT IT". So for the solution the most basic we can do is to reduce our carbon footprint by 10% for the initialization that can be achieved by setting policies such as banning plastics , using plant based material . We can learn from the people of Indore(city with the cleanest environment for 5 consecutive years).

A NEW INNOVATIVE method to overcome many problems at the same time Government can promote the private sectors to go for the investment in making bio fuels made from used oils from the food industry . By this we will be able to use one arrow for three outcomes i.e. used oil from the factories won't be reused as reused oil is extremely harmful ,also it will not be dumped into the ocean saving it from pollution that leads to destroying ocean biodiversity . As capital is already present, it would provide employment and economic growth to the country for making bio fuels . Also bio fuels are an alternative to the harmful fuels that we use today .

THE GOI can adopt the sustainable goals and take measures that help them achieve those goals

At the end I would like to conclude with the fact that INDIA that has come out of the situations like INDEPENDENCE FROM THE BRITISH rule can definitely achieve its ambition of VIKSIT BHARAT with right steps.

CHANCHAL KAUSHIK
B.Sc. (H) Comp. Sci.
II Year

G20 PRACTICES:

2023, this year came with great achievements of our country Bharat, which started with the space missions to G20 summit. On 9th and 10th September 2023, 18th G20 summit organised at Bharat Mandapam, New Delhi with the presidency of our honourable Prime Minister Shree Narendra Modi. It was the future changing event for all citizens of Bharat where we were able to see all the great leaders of other 19 countries along with African Union on the same place in the capital of Bharat. With the G20 summit we were gifted with life changing moments and policies. Every year environment remains a great concern for all countries in G20 meetings but this year Bharat came up with the agenda of Green revolution that is LiFe: Life for environment. This was the first time to think about the life of the environment instead of the life of humans because health of a planet is equivalent to the health of mother earth. The main focus in LiFe is sustainable development and P3.

What is LiFe?

LiFe moment started with the motto "of the planet, about the planet and for the planet". Every country is concerned about the climate crisis and degradation of the health of nature, for decreasing the stress from environment and for the healthy and green future of the planet government of Bharat is going to introduce P3 people with the acceptance of other countries.

P3 people are simply going to be those individuals who will participate in the moment of protecting their mother earth from ruining. For being a P3 we don't need to do something big, some small steps can make us the P3. Using bicycles instead of petrol vehicles or use of e-vehicles can reduce the emission of carbon from the nature, by using eco-friendly materials instead of plastics and non-degradable substance we can have a future with the fertile soil, fresh air to breath and clean water to drink. According to the research in G20 it was said that if 1 billion population among 8 billion population will adapt sustainable lifestyle then it will reduce 20% of CO or carbon from the environment which can be a big deal.

With the increase in the usage of eco-friendly substance will lead to increase in concern towards nature in all over the world, not only this we can have a great future ahead for our future generations too. Until now, we were following the cycle of "Take, Make, Use and Throw" but now it is not eligible anymore for the sake of the future of the planet. Now, our real motive of life should be 3R's: Reuse, Reduce and Recycle. Among all 6 agendas of 2023 G20 summit meeting, the Life: Green revolution was one of the main focus which integrated the theme of G20 meet also "One Earth, One Planet, One Future" by the support of all other sovereign countries and Europian and African union. The sustainable life is the need of the time and it's a wake up call for us to start to think what to do in future and what will be the condition of the planet we want to left for our descenders.

The agenda of LiFe is clear to make life of each and every person of Earth a sustainable life which also cover the major topic concerns like circular economy and digitalization of the world with minimum e-waste. With the agreement of moment LiFe we have some Green technologies ahead which can lead to a sustainable life like:

Electronic vehicles
Using UPIs for transaction purposes
Electronic records for data collection
Developing environment friendly polythenes
Less harmful fertilizers and many more.

At the last, We need to support our government for the same if we want to see all of those things happen in future for real. At government level it has initiated in each member countries and it's time for us to be the part of this moment now. With the contribution of common people with the government will lead to success of Green tech in future which will be the real success of the G20 summit in future.

Nature is something you can't ignore
Technology is something you can't leave anymore
Let's try a new thing here
Mix the nature with techie minds here
With the green tech make everyone happy
Either it is nature or my neighbour happy

PRACHI AGGARWAL
B.Sc. (H) Comp. Sci.
III year

VIKSIT BHARAT 2047:

An aim known as viksit bharat is given by the prime minister of our country Shri Narendar Modi to all the citizens as the name suggests Viksit Bharat also called as Developed India. Revatilizing India it is the moto to all the citizens to make India developed till 2047 . It also gives opportunity to us as a growing future to tell about our ideas and development we need in 2047. Personally for me developed India should have these major things in it that is good economy, health and facilities, good governance, best national security, advance education, diversified culture, smart use of technology like artifical intelligence, sustainability, good enviornment, clean and green India, zero poverty, no unemployment and safe place to live in for all the citizens irrespective of their communities and their religion. As the mentioned things need to be implemented there will be hurdles to achieve them peacefully so we have to make sure that every citizen should take this aim as their own and should help in achieving it .If together all Indians can believe it is for their own sake they will help in completing it. All the major things that we will be needed in 2047 are only will achieve by the citizens only.

To make it a best economic country we together should work on increasing the economy there should be more number of hospitals with best equipments and all type of patients should be treated in our country only on lower cost. Govt. of India should strictly make laws on the factors which in everyday life we neglected easily. As talking about our national services they should be provided with best weapons to overcome any war easily. Indian talent and technology together make it an India tomorrow. Advanced study students should make the best use of the resources they provided as online courses , good wifi, etc. Our network should expand till 6G.

Our culture diversity, beautifulity should reach worldwide the globe and with our cultural achievment we can grow it more and more for this we have to teach the students or the upcoming generation everything about our culture to make them known by their roots. Artifical Intelligence powered by MAN from this statement there is only one thing i want to say man should completely be charge of ai as it can't be overpowered. we want ai to make things easier but our employment should not be disturbed rather it should be increasing with it .To make india more sustainable we have to work on the industries which only promotes our enviornment not ruins it because we have to breathe in the same air.

To make it cleaner and safer we should have more strict laws on it and citizens should also treat it like their own homes and try to not make it dirty. Each and every citizen should have equal opportunities with them so there is no discrimination in any terms. as we are getting on the end there is only one thing I want to say Together we can built or break our nation now this is upto you all which path you want to take. Whether you want to be called as developed or developing country's citizen

Lastly viksit bharat makes viksit naagrik..and I truly believe we can make it VIKSIT BHARAT by 2047.

KRITIKA SHARMA
B.Sc. Physical Sci.

SMART CITIES AND G20:

HOW TECHNOLOGY IS SHAPING URBAN DEVELOPMENT

The idea of a smart city and the idea of living a luxury lifestyle in smart city is a dream of millions of people living in the surface of the earth. Smart cities drive us with a motivation to move forward and provide us with a lot of opportunities. But the development of smart cities and urban development traces back to a long time. A lot of thought process and planning with the help of technology and other resources goes into the process of turning a place into a smart city. Technology has always played a crucial involvement in building smart cities and in the development of the urban centres. The proof of this follows back to the long history of Indus valley civilisation or the Harappa civilisation where with the technology of survey tools and planning kits helped in the planning of proper drainage systems along the houses of the civilisation in their main urban centres of citadel and lower town which were the marks of urban development in their civilisation. Coming back to present, the growing AI technology and resources of open buildings are dominating the spheres of urban development in a large scale. The smart communication, large scale job opportunities, and commutative connection to one sphere of work to another by the help of technology is what attracts people towards the smarty cities and is what makes the smart cities a hub of development and national growth. Simultaneously, the conduct of G20 and many other global summits of these sorts bring another perspective to this scenario of urban development and smart cities. The introduction of the "G20 global smart cities alliance" is one such initiative which promotes the smart cities and works towards the development of these cities in developed as well as developing or under developed countries. This policy was introduced in 2020 in regard of the global 20 summit to create a space for the countries to put forward the plans for their developments of their cities.

This alliance brings together the countries of around the world and connects them to their internal country levels of municipalities, regional, and national government levels to the world level of international spaces where the necessities and achievements are presented in front of the delegates. This initiative along with the growing technologies has presented the globe with fruitful results of more planned cities which are helping in reaching the opportunities of their cities to equal sections of the society as well as the areas near the cities which also gets benefited from the growing urban developments.Furthermore, the growth of technology and fast reach of the world to each other helps in the fast track developments of the urban centres. In conclusion, the shaping of urban development's and smart cities and the opportunities that come along with it, very solely relies on the global and international help and the growing smart technologies.

ANKITA CHAKRABORTY
B.A. (H) History
I year

VIKSIT BHARAT 2047:

A NATION ON THE PATH OF DEVELOPMENT, THRIVING TECHNOLOGICAL ADVANCEMENTS WITH SUSTAINABILITY

In the quest to have a developed nation, India is going right on the path. To have India as a developed nation by 2047, that is the centenary year of independence would be a joint effort from All the sectors of the country, be it youth, women or any upper class businessman all need to contribute in best of there way possible.

Backing up and seeing to the year of 1947, when all Indians only dreamt of having independence, to be free and have all the necessary rights, at that time all Indians wanted to just have necessities of life but now after 75 years of independence from the British Raj Our prime minister made all of us see another dream and trust it to make it fulfilled by 2047 "THE DREAM OF VIKSIT BHARAT". Now the question here arise about how can we fulfil our dream and make India developed by 2047. So seeing to this the biggest weapon that India has is the youth, around 67% of the population of India is our youngsters who can thrive for a better or say best future. Taking it from technological advancements: our country is also going ahead and making achievements that will be cherished for centuries. Like recently our Indian space research organization (ISRO), launched many satellites followed by great achievements like Aditya 1 for knowing more about Sun being the first country to launch a rocket for sun and other big historic landing on the south pole of the moon with Chandrayan 3, that is the greatest example that we Indians do everything that is on our minds without fail like ISRO tried the Chandrayan mission for the third time. These achievements of course frame a better picture for a developed nation.

Now seeing towards what all can be done in the near future. The focus needs to be diverted on to the literacy rate and poverty. To tackle the situation of poverty many measures are being taken already by our pm like ration scheme for providing good food to the needy and many more but the main thing behind the poverty is that the poor people are not getting employed so to tackle this situation, the government and the youth with each other can manage to grow more start-ups and encourage poor people to be employed and have job security for better income.

Dream Big

Now exploring the pathways for developed India, throwing some light on the other aspects to:

Pioneering the economic growth and innovations:

The bedrock of India's betterment lies in sustainable economic growth. Unleashing the full potential of innovation, research, and development is paramount. By fostering an environment conducive to start-ups and businesses for growing the , India can not only attract foreign investments but also generate employment opportunities on a monumental scale. Strategic policies that nurture entrepreneurship will be instrumental in propelling the nation into a new era of economic growth and new advancements.

Forging the Infrastructure of Tomorrow:

A developed nation necessitates a innovative infrastructure backbone. Investments in transformative projects encompassing transportation, energy, healthcare, and education are imperative. The lies in bridging the divide between rural and urban landscapes, ensuring efficient public transportation, and establishing widespread access to essential services. A well-connected society forms the scaffolding for inclusive development. The countries with skyscrapers may look beautiful but the

Empowering through Education and Skill Development:

The empowerment of any nation resides in the knowledge and skills of its people. For India to burgeon into a developed entity, the educational landscape requires an overhaul. A strategic reimagining of the education system to meet the demands of the evolving job market is imperative. Prioritizing vocational training, promoting digital literacy, and instilling a culture of innovation within educational institutions are pivotal steps in nurturing a workforce prepared for the challenges of tomorrow.

Embracing the Digital Frontier:

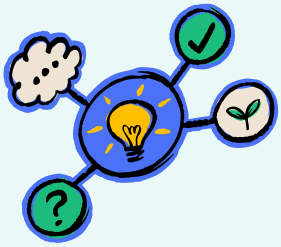
The future unfolds in the realm of technology. India's journey to development demands an unwavering embrace of technological advancements. Strategic investments in artificial intelligence, block chain, for making the security of our data in all the banks and the crucial information can be stored in the form of blocks and be safe for the country betterment so that no cyber crimes can be made in the country and advanced manufacturing for the nation into a digital renaissance.

Establishing a robust digital infrastructure and cultivating a tech-savvy culture will position India at the top of global innovation. So now seeing and concluding the part of how India embarks on the quest to become a developed nation by 2047, with all the help of government, private sector, civil society, and citizens becomes paramount. The intricate interplay of economic growth, social inclusivity, environmental sustainability, and technological advancements holds the key to unlocking India's true potential. Through a holistic approach that addresses the multifaceted challenges, India can carve out a future where prosperity and development intertwine seamlessly, realizing the vision conceived on the eve of its centenary of independence.

So at the end making the blood of India shine more brighter the choice is ours will be a better youth and good population contributing to the nation by stopping corruption following all the rules or will the citizens be a liability for the country by increasing crimes and not being a good youth. THE CHOICE IS OURS!

KONICA MALHOTRA
B.Sc. (H) Comp. Sci.
II year

VIKSIT BHARAT @2047



Viksit Bharat has now been formally launched. The idea of making India a developed nation by 2047, the 100th year of its Independence, sounds exciting. This goal looks achievable, given the pace with which the country is moving ahead. This moment also gives us an opportunity to assess the idea of development intended.

The vision encompasses various aspects of development, including economic growth, social progress, environmental sustainability, and good governance. Hon'ble Prime Minister Shri Narendra Modi has announced Viksit Bharat 2047 Campaign from 11th Dec 2023 for the Youth of India.

Given the rapid progress of the country, this ambitious goal seems within reach. This moment also provides an opportunity to evaluate the concept of intended development. The selection of development priorities and focus is both intricate and critical.

In Viksit Bharat, there is an excessive emphasis on economic development. However, post-developmentalists argue that this approach reflects a Euro-centric view of development.

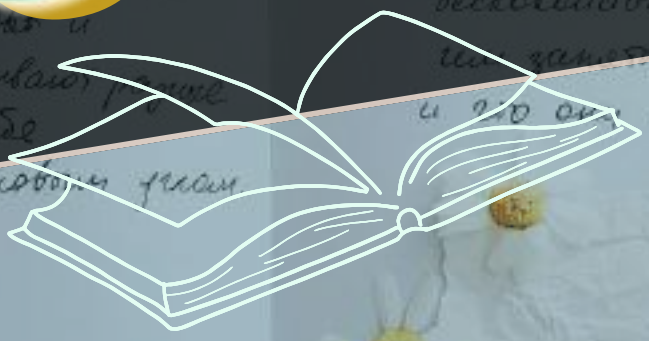
By adopting a holistic approach that values happiness and well-being alongside economic growth, India can aspire to achieve a more sustainable and fulfilling development trajectory.

VANSHIKA KHURANNA

B.A. Prog.

III Year

POEMS



POEM SECTION

घर से होस्टल की ओर निकल पड़े
नए सपनों की राह पर चल पड़े,
घर से दूर, सपनों के पास
करने चले एक नए कमरे की तलाश

हर कदम पर डर, साथ ही उत्साह
और आने वाले कल की खुशी,
होस्टल के अंधेरे भरे कमरों में रोने
से लेकर नए दोस्तों को बनाने की खुशी,

बस,
यह घर से होस्टल तक का सफर,
जीवन की मिट्टी का खास अफ़साना ।

जसप्रीत कौर
B.Sc. (H) Comp. Sci.
III year

POEM SECTION

Beneath the Shadows: A SYMPHONY OF RESILIENCE

In shadows deep, where whispers dwell,
Lies a tale of hearts that once did swell,
But now weighed down by burdens untold,
In silent anguish, their stories unfold.

Amidst the chaos of modern days,
Trauma's specter casts its haze,
A haunting echo of scars unseen,
A silent scream in the void between.

Beneath the surface, where darkness creeps,
Bullying's venomous tendrils seep,

POEM SECTION

In cruel words and spiteful jest,
Lies the torment of the oppressed.

In the depths of minds, a storm does brew,
Depression's shroud obscures the view,
A heavy burden, a relentless weight,
As hope recedes, and shadows dominate.

Anxiety, a relentless foe,
With tendrils reaching far and low,
A constant whisper, a nagging fear,
That echoes loud, but no one hears.

Yet in the midst of this despair,
A glimmer of hope, a breath of air,
For in our struggles, we find our strength,
A resilience that knows no length.

POEM SECTION

So let us raise our voices high,
And cast away the shadows nigh,
For in unity, we find our might,
To face the darkness and emerge in light.

With empathy and compassion, let us stand,
Extending a helping hand,
For in the battle against the night,
Together, we can make it right.

Alolika Das
B.A. Prog.
III Year

POEM SECTION

मायूस सी जिंदगी से निकलने की आस मे बैठे हैं..
खुशियों की तलाश मे ग़मों को पास लिए बैठे हैं ..
की सूरज की रौशनी में अंधकार लिए बैठे हैं....
और कहते है की हम तो जिंदगी की तलाश में बैठे हैं....
जिंदगी वक़्त के इंतजार में बैठे रहने का नाम नहीं हैं...
जिंदगी दुखों को रोने का नाम नहीं ....
और जिंदगी अंधकार में रहने का नाम नहीं ....
और हां, जिंदगी मायूसियों से हारने का नाम नहीं ....
जिंदगी तो वो है जो,
जैसी मिली हैं हम उसे सवार ले..... ...
खुशियों के रंग हम उसमें बिखेर दे...
जिंदगी तो वो जिसे हम कुबूल करे
और पूरी शिद्दत से कुबुल करे .....
पूरी शिद्दत से क़ुबूल करे.....

श्रुति
B.A. Prog.
III Year

POEM SECTION

Poem on :
VIKSIT BHARAT @2047

In the year 2047, Viksit Bharat stands tall,
A nation evolved, united for all.

Innovations flourish, technology soars high,
A tapestry of progress painted across the sky.

From the ancient roots to the future's embrace,
Cultures intertwined, a diverse, vibrant space.

Eco-friendly cities, where greenery blooms,
Sustainable practices replacing old gloom.

POEM SECTION

Harmony echoes in the hills and the plains,
Unity prevailing through sunshine and rains.

Education a beacon, enlightening minds,
Inquiry and knowledge, the ties that bind.

Eradicating poverty, fostering equality,
Empowering the people with shared vitality.

A nation resilient, facing challenges with grace,
Marching forward, leaving no one to trace.

Viksit Bharat, a vision so clear,
In 2047, a future to hold dear.

Varsha
B.Sc. (H) Comp. Sci.
II Year

POEM SECTION

शब्द भी बड़े अजीब होते हैं।
प्यार से लगे तो लगाव
नहीं ते घाव देते हैं।
उम्र गुजर गई इनको सुनते-सुनते
कभी आखों में नमी
कभी थम जाते है वक्त के साथ
कभी ये भी बड़े अजीब हालात देते हैं।
मिलावट के इस दौर में हाँ में हाँ कर दूँ
तो अच्छे संबन्ध,
नहीं तो संबंध खराब कर देते हैं।
कहते है अच्छा वक्त आएगा एक दिन
पर ये तो कुछ पलों में वक्त बदल देते हैं।
कभी खामोशकर देते है ये मुझको
कभी मुझसे आवाज़ लेते है
गिरावट के दौर में आ गई है गिरावट इतनी,
हर वक्त दिलता रहता है दिल मेरा,
ऐसे शब्दो से मैं महक, महक कर कहती हूँ
शब्दों में महक रखना,
फिर जिन्दगी महकेगी फूलों कीतरह हमारी ।

महक
B.Sc (H) Comp. Sci.
I Year

POEM SECTION

"Viksit Bharat: A SYMPHONY OF PROGRESS AND PRIDE"

In the land of ancient lore,
where legends rise,
Where echoes of valor and wisdom still fly,
There lies a nation, vibrant and bold,
Where dreams unfold, and tales are told.

Viksit Bharat, land of vision and might,
Where progress dances in the morning light,
From Himalayan peaks to oceans wide,
A tapestry of culture, woven with pride

POEM SECTION

In cities bustling, with skyscrapers tall,
And rural vistas, where fields stand in thrall,
In every corner, a story untold,
Of resilience, triumphs, and hearts of gold.

In classrooms humming with knowledge's sway,
Where minds ignite, and ideas play,
In laboratories, where innovation gleams,
And in the artist's canvas, where dreams find streams.

From the ancient scriptures to digital realms,
Where tradition meets innovation at the helm,
Viksit Bharat, a beacon of hope,
Where ancient wisdom and modernity cope.

POEM SECTION

Through challenges faced, and battles won,
The spirit of Bharat forever spun,
In unity, diversity, its strength does lie,
A nation marching towards the sky.

So let us cherish this land so grand,
Viksit Bharat, where dreams expand,
With vision, courage, and hearts aglow,
Towards a future, where greatness shall flow.

Alolika Das
B.A Prog.
III Year

POEM SECTION

'माँ' the beauty of this word is
divided into Mata, Mai,
Ammi, Amma, Mother,
Mummy, Mumma n what you
call her with love & Respect.
Whenever I see her smiling,
it feels like my world is
dancing just like the daffodils
dances when the wind flows.
We all are like 'seeds which
needs love & care to grow
into a sprout. from sprout to
sapling & sapling to tree' The
process is not at all easy. but
all mothers are strong enough
to endure the pain & goes
against whole 'ब्रह्मांड' if any

POEM SECTION

thing goes wrong with her
child

Just like a sunflower, who
follows every moments of the Sun.
I want to follow all the
moments of you 'Maa' to
become a 'warrior'.

A Very Happy Mother's Day
to all the Mothers Out there

Anjali singh
B.A. Prog.
III Year

POEM SECTION

"Viksit Bharat:
"DADDY'S LITTLE SOLDIER"

She gazed at the sky
Her dreams were high
She asked in a sigh
Why did my father die?

Her grandpa in tears glanced at her
For him the whole world got blur
It would definitely take time to recover
Alas! This grief left him shattered

He answered her query in a low voice
That your father got martyred,
Because it was his destiny and choice

POEM SECTION

The grandfather embraced the
little girl in his arms,
He gently wiped her tears and
Told her not to lose her charm

He asked his little doll
Not to cry
Her father was a fearless soldier
Who was born to die

You should be proud
That your father is enclosed in a box
Which is orange, white and green
For him, the nation was only supreme

The medals laid on his chest
Depicts that he fought for the best

POEM SECTION

The epaulette that he wore on his shoulder
Made him look strong and bolder
Listening the tale of her father's courage
Tears streamed down her chin
She convinced her heart and soul therein
Grandpa I will become like my papa
And will fly very high
Don't you cry, if I die
Then I will surely meet my papa in the heaven
And will definitely tell him that
Daddy! I am your little soldier
Only and only because of your heroic impression.

Manyata
B.A Prog.
III Year

POEM SECTION

चलो सुनाएँ आज एक कहानी
न कोई राजा, न ही कोई रानी
कैसे हैं ये बात पुरानी
जिसकी करता हर कोई निगरानी

इतिहास गवाह था. उसपर
हो रहे अत्याचारों का
जी घौल के पी जाया करती थी
बोझ सभी संस्कारों का

वो ज्वाला एक सती की थी
जो उमड़ रही तेज गति में थी
तुम चाहे जितना ललकारो,
उसके धैर्य की कोई इति न थी

चुप थी जब तक हैवानियत
से अंजान थी
विशाल अपराध सहकर भी वो
निडर खड़ी बलवान थी

POEM SECTION

ध्यान रखती हर चीज़ का
छोटी-बड़ी हर सोच
जब न रहेगी बेंटी
तब किसको दोगे दोष ?

दरवाज़े तो बंद कर लिए थे. उसने
पर रोक न पाई थी उस पवन को
भरथरा गई थी उसकी रूह
जब हीनपूर्व स्पर्श किया था उसके बदन को

चिल्लाना चाहती थी वो
पर गम में मदहोश थी
उसकी कब्र न मौन रही
जब बाज़ार में इंसानियत खामोश थी

भले ही तेज़ाब से तुमने
राख कर दिया उसके रूप को
पर लाख कोशिशों बाद भी.
मिता न पाए उसके स्वरूप को

POEM SECTION

ध्यान रखती हर चीज़ का
छोटी-बड़ी हर सोच
जब न रहेगी बेंटी
तब किसको दोगे दोष ?

दरवाज़े तो बंद कर लिए थे. उसने
पर रोक न पाई थी उस पवन को
भरथरा गई थी उसकी रूह
जब हीनपूर्व स्पर्श किया था उसके बदन को

चिल्लाना चाहती थी वो
पर गम में मदहोश थी
उसकी कब्र न मौन रही
जब बाज़ार में इंसानियत खामोश थी

भले ही तेज़ाब से तुमने
राख कर दिया उसके रूप को
पर लाख कोशिशों बाद भी.
मिता न पाए उसके स्वरूप को

POEM SECTION

कभी अपने बुर्खे की शान रखती
तो कभी अपने घूंघट का मान रखती
चाहे जितना भी सता लो
स्मेष अपने अस्तित्व का अभिमान करती

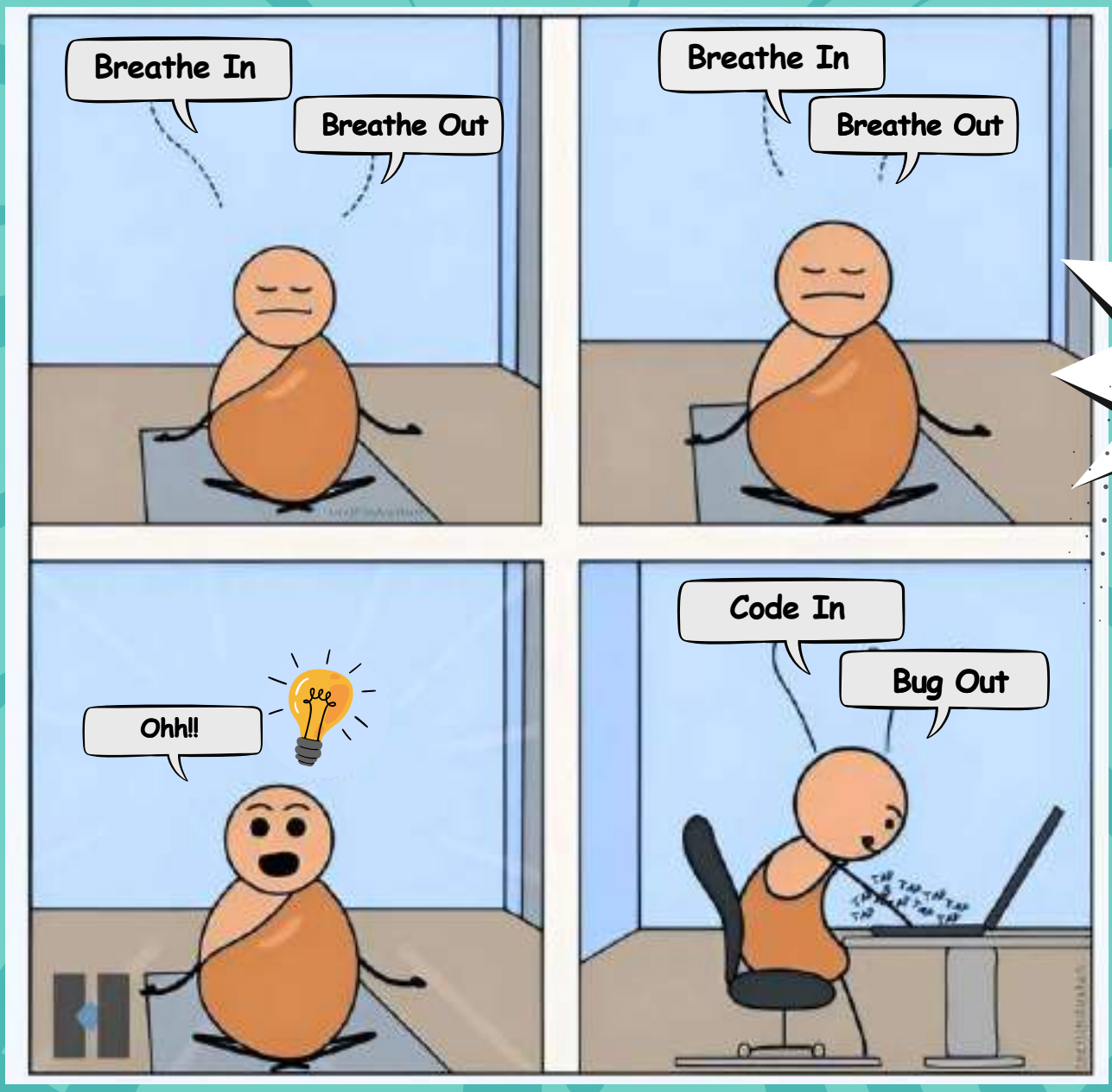
मान्यता
B.A Prog.
III Year

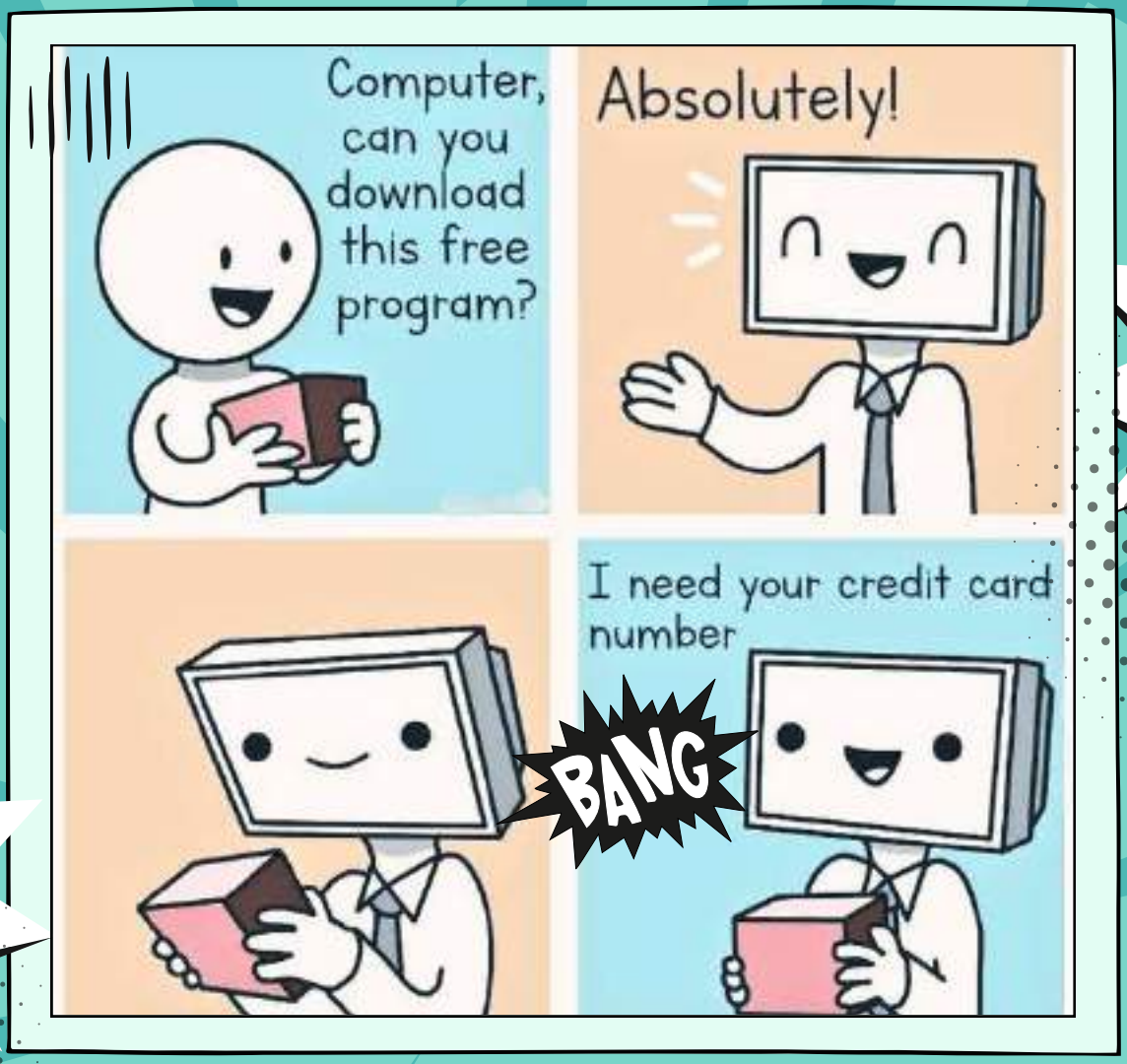
COMIC STRIP

ADITI

B.Sc Hons Computer Science

II Year




Computer, can you download this free program?
Absolutely!
I need your credit card number
BANG

This code is a joke, who wrote this?
LOL!
When you realise it's your own code
BAM!

REPORTS

G20 UNVEILED

DATE: 11th OCTOBER 2023

TIME: 10:20 A.M.

INAUGRATION

OATH TAKING AND BADGE CEREMONY OF SATTVA OFFICE BEARERS.

EXTEMP-A-RENCE

DATE: 11th OCTOBER 2023

TIME: 11:30 A.M.

WINNERS

1. **PRACHI AGARWAL**
2. **MANASVI BANSAL**
3. **AARYA CHATURVEDI**

G20 UNVEILED

DATE: 11th OCTOBER 2023

TIME: 01:30 P.M.

DSA EXPO

SPEAKER :
PREETI JHANGRA
(MCA, IGDTUW)

G20 UNVEILED

DATE: 11th OCTOBER 2023

TIME: 02:15 P.M.

INK & INSPIRATION

WINNERS

1. SALONI RANA
2. PRACHI AGARWAL
3. ANKITA CHAKRABORTY

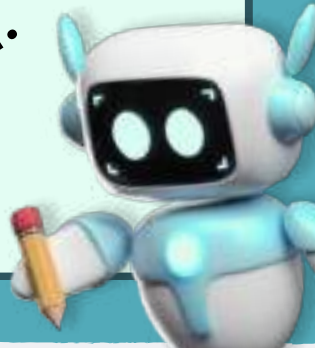
G-INNOVATE

WINNERS

1. KASHISH
2. ANJALI VERMA
3. SONALI KUMARI
4. MONIKA RAJPUT
5. SNEHA BHATT
6. MUSKAN KUMARI

DATE: 11th OCTOBER 2023

TIME: 02:15 P.M.



2ND NOVEMBER

DATE: 02ND NOVEMBER 2023

TIME: 10:38 A.M.

IAS-UPSC

SPEAKER :

DR. SUMESH CHAHAL
(DIRECTOR, CHAHAL ACADEMY)

MR. SHUBHAM JAIN
(IPS)

TECH-TRAIL

WINNERS

1. ANJALI VERMA,
   ANANYA GAUR,
   SALONI RANA
2. NEHA,
   RITU,
   DIYA
3. PRACHI ,
   GUNJAN,
   YACHNA

DATE: 02ND NOVEMBER 2023

TIME: 12:30 P.M.

CODEX

DATE: 21ST NOVEMBER 2023

TIME: 10:35 A.M.

AI FOR HIGHER EDUCATION

SPEAKER :
DR. SHILPA SRIVASTAVA
(ASSOCIATE PROFESSOR, CHRIST UNIVERSITY)

TECH MARATHON

WINNERS

1. **PIYUSH KHURANA**
2. **JYOTIKA SEHGAL**
3. **SNEHA BHATT**

DATE: 21ST NOVEMBER 2023

TIME: 01:14 P.M.

CODEX

RHYTHM CODERS

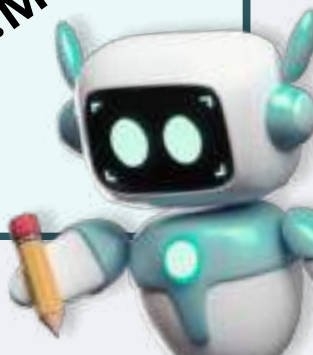
WINNERS

1. NEHA
2. PRACHI AGARWAL
3. ROHIT

FIND THE CARD

WINNERS

1. MANASVI BANSAL, SHATADHA
2. RITU, NEHA
3. DIYA, ANSHIKA



27TH JANUARY

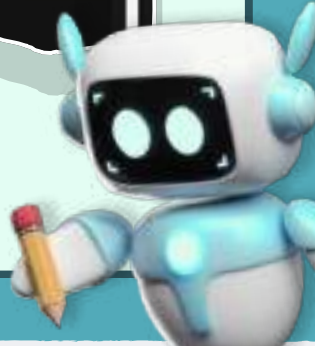
DATE:27TH JANUARY 2024

TIME: 12:30 P.M.

VIKSIT BHARAT PPT

WINNERS

1. KHUSHI
2. PRIYANSHI



15TH FEBRUARY

POSTER MAKING

WINNERS

1. DIPANSHU SINGH
2. KASHISH
3. GAURI GOENLA
4. SANJANA DALAL

15TH FEBRUARY

LEARN DU (INTERNSHIPS & JOBS)

DATE: 15TH FEBRUARY 2024

TIME: 10:00 A.M.

SPEAKER :

MANASVI
(KALINDI COLLEGE BSC PS, 1ST YEAR)

MR. NAVEEN
(SRCC)

MR.ANKUSH
(HRC)

ARTICLE WRITING

DATE:15TH FEBRUARY 2024

TIME: 01:30 P.M.

WINNERS

1. CHANCHAL KAUSHIK
2. KONICA MALHOTRA
3. KRITIKA SHARMA

19TH MARCH

COUNSELLING SESSION (MCA/MSC)

SPEAKER :

PROF. RITUKAR CHADHA
(DIRECTOR,
LANDMARK INSTITUTION)

QUBIT'24

DATE: 30TH APRIL 2024

TIME: 09:30 A.M.

TECH BATTLE

WINNERS

1. ANANYA GAUR, PRACHI AGARWAL
2. GARIMA, SAUMYA

TECH TADKA

WINNERS

1. SIMARPREET SINGH
2. MD JAVED
3. DIVYA

DATE: 30TH APRIL 2024

TIME: 11:30 A.M.

QUBIT'24

DATE: 30TH APRIL 2024

TIME: 01:30 P.M.

PRESENTRA

WINNERS

1. MAHIKA
2. KHYAATI

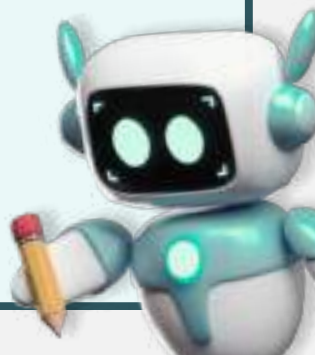
CINEMATICS

WINNERS

1. ANSHIKA SINGH
2. AYUSH
3. MUSKAN

DATE:30TH APRIL 2024

TIME: 02:30 P.M.



QUBIT'24

DATE: 1ST MAY 2024

TIME: 09:30 A.M.

CLOUD COMPUTING

SPEAKER :

MR. SAURABH JAIN
(CUSTOMER ENGINEER, TECHNICAL ADVISOR, RIVERBED)

TALENT HUNT

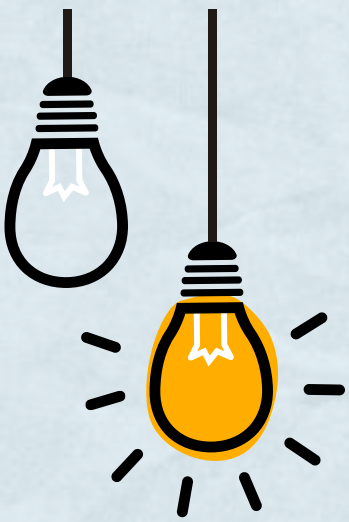
DATE: 30TH APRIL 2024

TIME: 11:30 A.M.

WINNERS

1. **MISS FAREWELL**
   NIKITA JHA
2. **1ST RUNNER UP**
   SUDIKSHA
3. **2ND RUNNER UP**
   ANSHIKA VARSHNEY

Did
You Know?



Interesting Facts:

- The term “bug” to describe a glitch in a system originated when a moth caused a malfunction in an early computer.
- Some of the biggest computer brands started in garages. (like Apple, Microsoft, and HP)
- People blink less when they use computers.
- The first computer covered the ENIAC (Electronic Numerical Integrator and Computer), covered 1,800 square feet and weighed 30 tons.
- MyDoom is the most expensive computer virus in history. (it costed an estimate $38.5 billion in damage)
- Russia engineered a computer that ran on water.(it was built in 1936 and was meant to solve partial differential equation.

Interesting Facts:

- Coding has over 700 languages.(Java ,Python and HTML are more common, but others, like Rust and Kotlin, are used in very specific situation)
- The first computer virus was a Creeper.
- You don't have to work in tech to use coding (70% of coding jobs are in career fields not connected with technology).
- Coding can power up your brain.(coding has definite cognitive benefits).
- The first gigabyte drive cost $40000. (released in 1980 and weighed 550 lbs)
- Google's first tweet (in 2009) was in binary.
- Every iPhone advertisement has the time set to 9:41. (time that Steve Jobs announced the very first iPhone in 2007)

BHUMIKA DHAPOLA
B.Sc.(Hons) Computer Science

New Technologies In AI:

1.GENERATIVE ADVERSARIAL NETWORKS (GANS)

A generative adversarial network (GAN) is a deep learning architecture. It trains two neural networks to compete against each other to generate more authentic new data from a given training dataset. For instance, you can generate new images from an existing image database or original music from a database of songs.

2.EXPLAINABLE AI (XAI)

XAI aims to provide insights into how AI models arrive at specific decisions, making it easier for humans to trust and understand AI-generated outcomes. It ensures that AI-driven decisions align with human values and expectations.

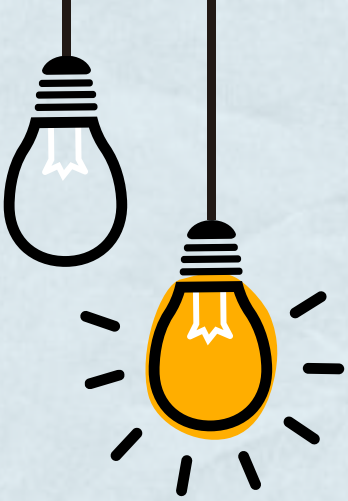
New Technologies In AI:

3.NATURAL LANGUAGE PROCESSING (NLP)

Natural language processing (NLP) is a machine learning technology that gives computers the ability to interpret, manipulate, and comprehend human language. Itcombines computational linguistics, machine learning, and deep learning models to process human language.

4. ROBOTIC PROCESS AUTOMATION

It refers to the functioning of corporate processes due to the mimicking human tasks and automate them. In this particular sphere, it's important to bear in mind that AI is not meant to replace humans, but to support and complement their skills and talent. Companies like Pega systems, Blue Prism, and UiPath focus on this process.



New Technologies In AI:

5.PREDICTIVE AI ANALYTICS

Predictive AI analytics combines all the advances in data science, machine learning, and statistical modeling. Predictive AI analytics has improved industrial operations, particularly in predictive maintenance. It helps businesses forecast equipment failures and optimize maintenance schedules, reducing downtime and maintenance costs.

6. AGENTIC AI

Agentic AI marks a significant shift from reactive to proactive AI. AI agents are advanced systems that exhibit autonomy, proactivity and the ability to act independently. AI agents are designed to understand their environment, set goals and act to achieve those objectives without direct human intervention.

AI Tools

CREATIVE PRESENTATION

Beautiful.ai

Beautiful.ai is an innovative AI presentation maker that aims to revolutionize how you create engaging presentations. The platform makes smart design recommendations through its intuitive interface and streamlines the creation process.

Presentations.ai

Presentations.ai aims to help you reduce presentation creation time while improving your overall presentation design quality. The platform uses AI technology to make creation effortless and offers many personalized design options. You can then share, track, and analyze your presentations to see how they perform with your audience.

Gamma

Gamma is one of the most intuitive platforms on our list. It uses generative AI to build your presentation from a text prompt, complete with visual aids, such as charts, graphs, images, and other visual elements – automatically. Once Gamma creates your presentation, you can easily add more elements. .

AI Tools

IMAGE GENERATOR

Canva

Canva is a versatile online design platform offering an extensive array of templates and tools for creating visuals like posters, presentations, social media graphics, and more. With Canva, users can effortlessly customize designs, incorporate stock images, and collaborate with team members in real-time.

FreePik

Freepik's AI image generator is a free web-based image generator which lets you create images with 3 text prompts per day. Each prompt will give you 4 variations of your image, so, technically you can get 12 free AI image generations per day! There are four different image styles to choose from: Photo, Digital Art, Painting, and 3D.

Picsart

PicsArt AI Image Generator is a versatile tool using advanced algorithms to transform images seamlessly. It offers various artistic styles, filters, and effects to enhance or completely alter your photos. With intuitive controls, it allows users to effortlessly create stunning visuals with a unique touch.

AI Tools

CHATBOTS

Dialogflow (by Google)

Dialogflow provides natural language understanding and processing capabilities, allowing developers to build conversational interfaces for various platforms like Google Assistant, Facebook Messenger, and more.

Microsoft Bot Framework

Microsoft Bot Framework offers a comprehensive set of tools and services for building intelligent bots that can interact with users across multiple channels, including Microsoft Teams, Slack, and Skype.

Rasa

Rasa is an open-source conversational AI platform that allows developers to build, train, and deploy chatbots with full control over the conversation flow and data privacy. It's highly customizable and can be integrated with existing systems.

AI Tools

CONTENT IMPROVEMENTS

Grammarly

Grammarly is one of the most popular AI-powered writing assistants. It checks grammar, spelling, punctuation, and style, offering suggestions to improve clarity, engagement, and correctness.

Quillbot

QuillBot writes with you, ensuring effective communication in a way that is true to you. With a number of AI writing tools and generative capabilities, including a world-class paraphrasing tool, QuillBot is a one-stop shop for all your writing needs, whether that's writing polished emails, or well-outlined documents

Turnitin

Turnitin is one of the most widely used plagiarism detection tools, especially in academic settings. It checks submitted documents against a vast database of academic content, internet sources, and previously submitted papers to identify any instances of plagiarism.

AI Tools

LEARN CODING

Openai Codex

OpenAI Codex is an artificial intelligence model developed by OpenAI. It parses natural language and generates code in response. It powers GitHub Copilot, a programming autocompletion tool for select IDEs, like Visual Studio Code and Neovim.

Replit

Replit, is an American start-up and an online integrated development environment. It allows users to create online programming projects called repls. It is free to use, and there are no ads. Users can create an account to save their projects and collaborate with others.

Tabnine

Tabnine is an AI coding assistant that helps developers write code faster and more securely. It offers AI-powered code completions and suggestions based on the developer's codebase and open source code.

PRIZES
ACADEMY AWARD
TO
CHLOÉ ZHAO
DIRECTING
"NOMADLAND"
ACADEMY AWARD
TO
"NOMADLAND"

Co-Curricular Achievements

Sneha Bhatt, II year

- TECH MARATHON (3rd Position)
- G-INNOVATE (Consolation)

Konica Malhotra, II year

- Intra College Rangoli Making Competition (1st Position)
- Viksit Bharat- Article Writing Competition (2nd Position)

Co-Curricular Achievements

Bhumika Dhapola, II year

- Best Cadet (1st position) - 2024

Garima, II year

- Intra-College debate, Talkology (2nd position) - 2024

Academic Achievements

B. Sc. (H) Computer Science

Name of Prize	Awarded for	Name of Students
Pragya Puruskar Memorial Prize	Highest Marks in B. Sc(H) Computer Science. Sem I & II	Pragya Priyadarshi
Students Union Prize	Standing First in B. Sc(H) Computer Science. Sem I and II Combined	Pragya Priyadarshi
Students Union Prize	Standing Second in B. Sc(H) Computer Science Sem I and II Combined	Shivangi Gupta
Students Union Prize	Standing First in B. Sc(H) Computer ScienceSem III and IV Combined	Ayushi
Students Union Prize	Standing Second in B. Sc(H) Computer ScienceSem III and IV Combined	Prachi Aggarwal
Students Union Prize	Standing First in B. Sc(H) Computer Science Sem V and VI Combined	Bhawna
Students Union Prize	Standing Second in B. Sc(H) Computer Science Sem V and VI Combined	Isha Sharma
Students Union Prize	Standing Second in B. Sc(H) Computer Science. Sem V and VI Combined	Anjali Singhal
Academic Prize	First in B. Sc(H) Computer Science part 1	Pragya Priyadarshi
Academic Prize	Second in B. Sc(H) Computer Science part 1	Shivangi Gupta

Name of Prize	Awarded for	Name of Students
Academic Prize	First in B. Sc(H) Computer Science part 2	Ayushi
Academic Prize	Second in B. Sc(H) Computer Science part 2	Prachi Aggarwal
Academic Prize	First in B. Sc(H) Computer Science part 3	Bhawna
Academic Prize	Second in B. Sc(H) Computer Science part 3	Isha Sharma
Academic Prize	Second in B. Sc(H) Computer Science part 3	Anjali Singhal
Students Union Prize	Standing First in B.Sc (H) Computer Science Sem V and VI Combined	Aditi Singh
Academic Prize	First in B.Sc (H) Computer Science part 3	Aditi Singh

Academic Achievements

B.A. (Programme)

Name of Prize	Awarded for	Name of Students
S.D. Mehra Memorial Prize	Highest Marks in Comp. Apl. in B.A. (Programme) Sem I & II	Shruti
S.D. Mehra Memorial Prize	Highest Marks in Comp. Apl. in B.A. (Programme) Sem I & II	Amayara Yadav
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem I and II	Shruti
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem I and II	Amayara Yadav
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem I and II	Duna Bishnoi
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem I and II	Akshayta Bisht
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem I and II	Shribha Gupta
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem III and IV	Vidhi Verma
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem III and IV	Kashish Arora

Name of Prize	Awarded for	Name of Students
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem III and IV	Kanchan
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Khushi Mishra
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Kashish
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Gehna Grover
Student Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Pooja Srivastava
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Sakshi Mishra
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Anjali Joon
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Ragini
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Vaishali Pundir

Name of Prize	Awarded for	Name of Students
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem III & IV	Khushboo Gouri
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem V & VI	Arpita Jaiswal
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem V & VI	Rashmi Kumari
Students Union Prize	Standing First in B.A. (Programme) Computer Apl Sem V & VI	Shreya Somvanshi
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem V & VI	Katyayni Srivastava
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem V & VI	Pragati Singh
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem V & VI	Devi Vriti Tripathi
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem V & VI	Ritika Kaim
Students Union Prize	Standing Second in B.A. (Programme) Computer Apl Sem V & VI	Jyoti Gupta

Academic Achievements

B.Sc. (Physical Science)

Name of Prize	Awarded for	Name of Students
Indumati Mehra Prize	Highest Marks in Comp. Sc. in B.Sc. (Physical Science) Sem I & II	Vidushi Mamgain
Students Union Prize	Standing First in B.Sc. (Physical Science) Sem V and VI	Pratibha Bharti
Students Union Prize	Standing First in B.Sc. (Physical Science) Sem V and VI	Kajal Singh
Students Union Prize	Standing Second in B.Sc. (Physical Science) Sem V and VI	Ruchi Sharma

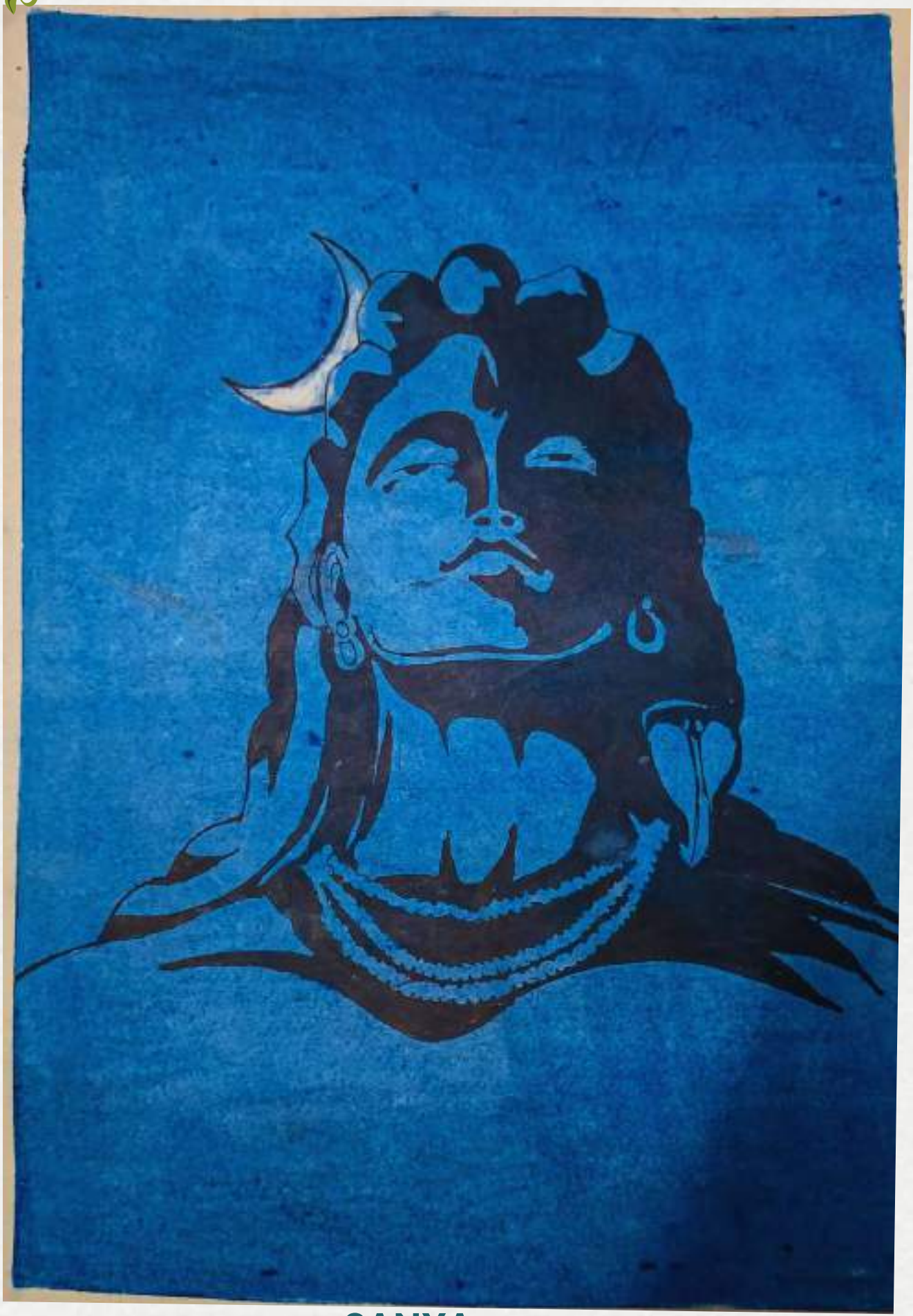
LANA DEL REY
POSTERS

SANYA

B.A. PROGRAMME II YEAR

ANJALI VERMA

B.SC. (H) COMPUTER SCIENCE



SANYA

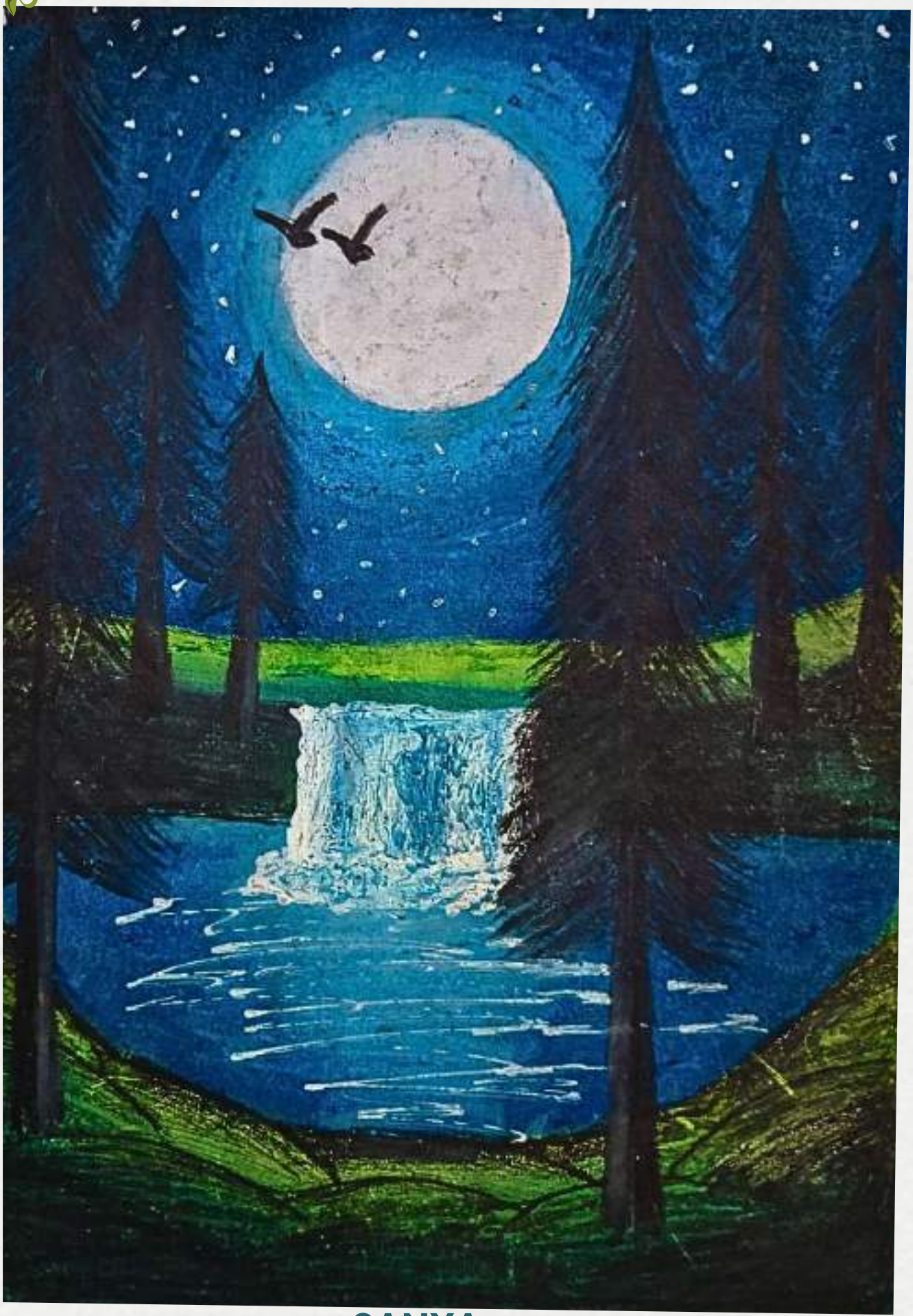
B.A. PROGRAMME, III YEAR

SALONI KUMARI

B.A. (H) POLITICAL SCIENC, I YEAR

KASHISH

B.SC. PHYSICAL SCIENCE, I YEAR



SANYA

B.A. PROGRAMME, III YEAR

MONIKA RAJPUT

B.SC. (H) COMPUTER SCIENCE, II YEAR

MEHAK

B.SC. (H) COMPUTER SCIENCE, II YEAR

SANYA

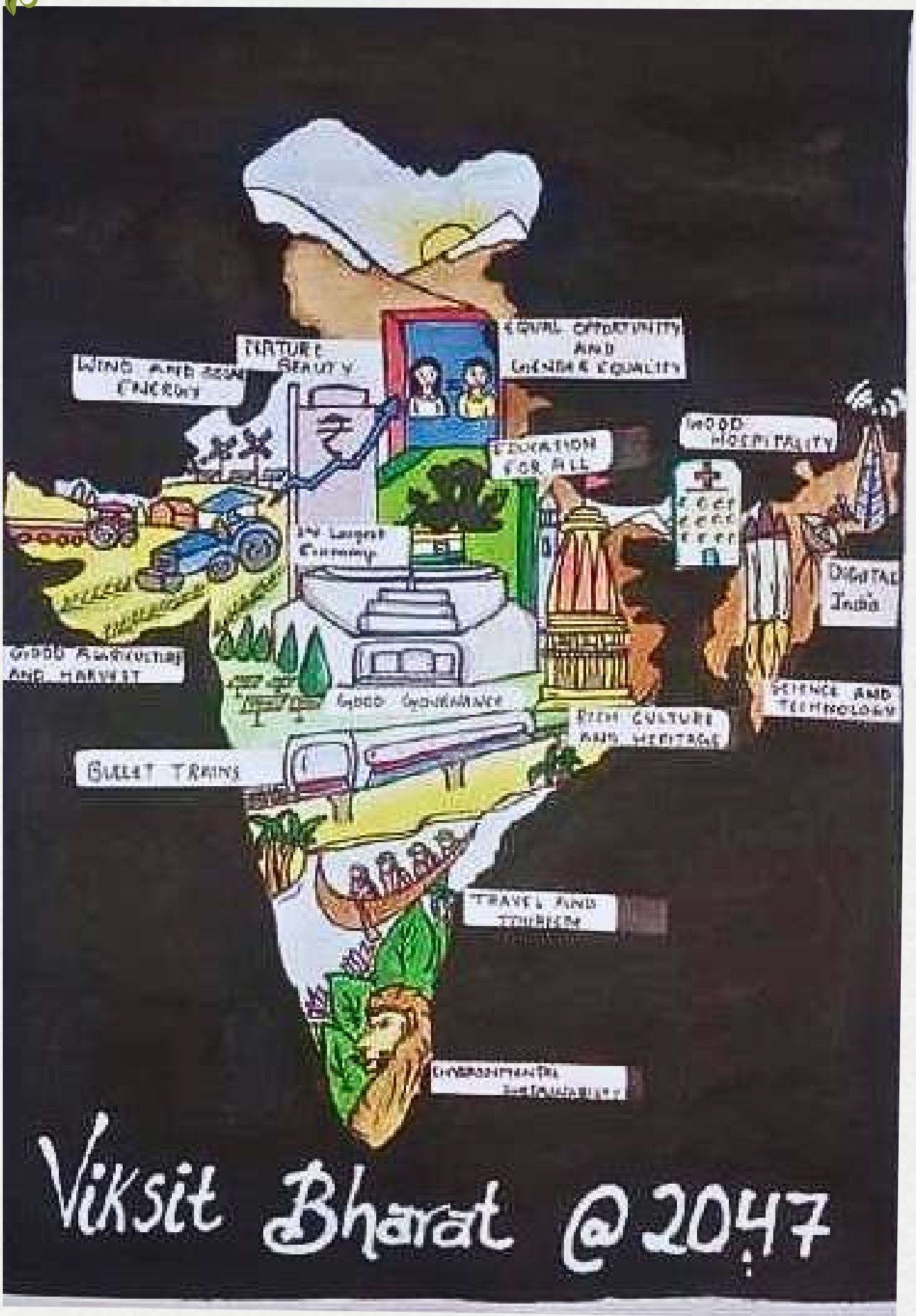
B.A. PROGRAMME, III YEAR

MUSKAN KUMARI

B.SC. (H) COMPUTER SCIENCE, II YEAR

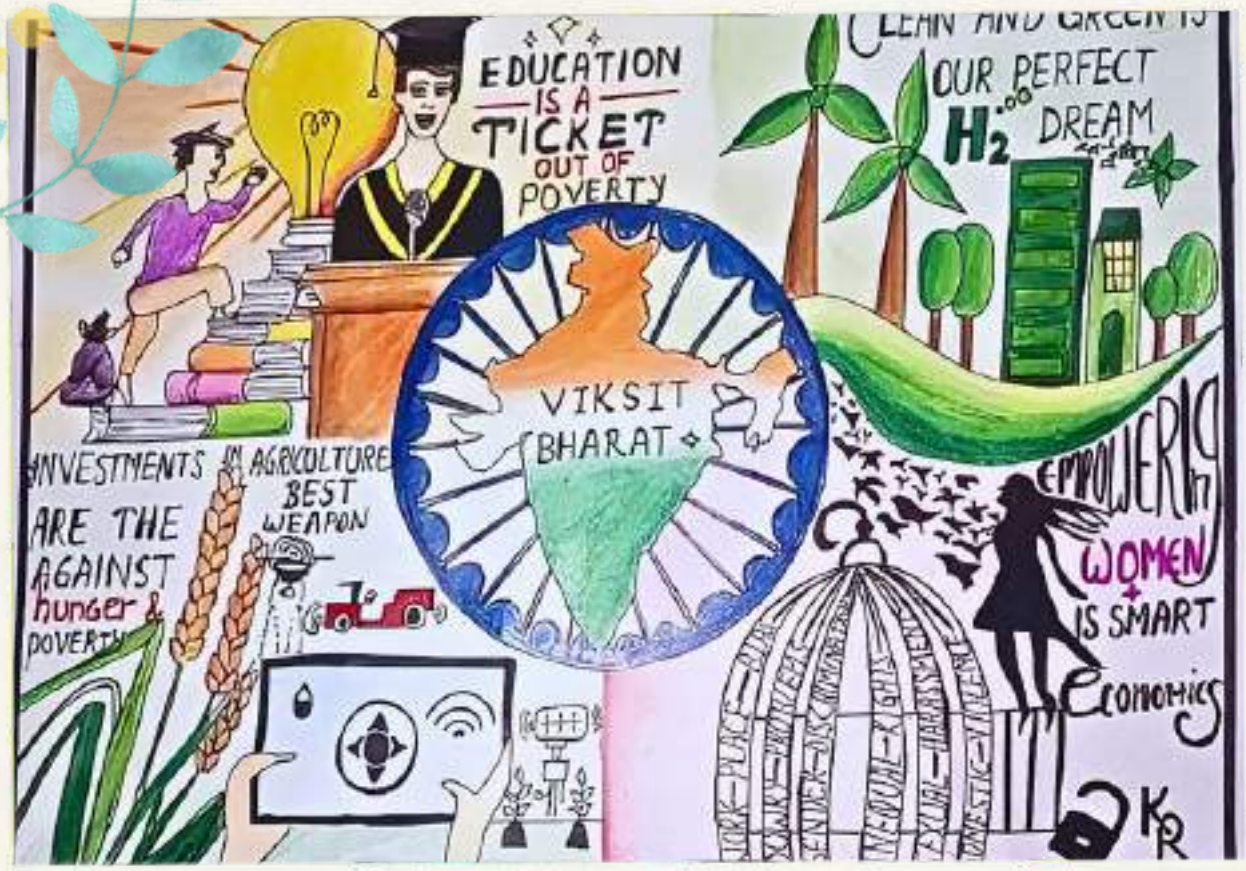
SNEHA BHATT

B.SC. (H) COMPUTER SCIENCE, II YEAR



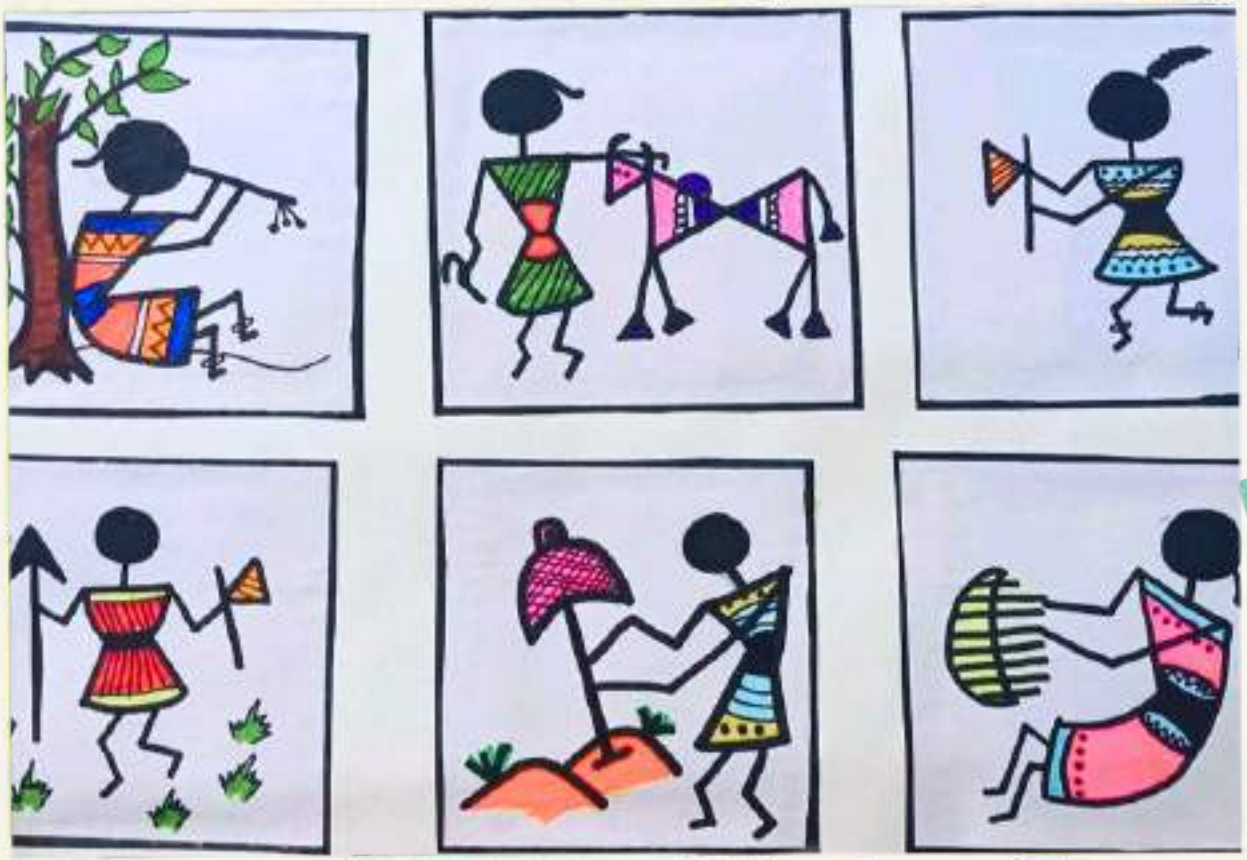
DIPANSHU SINGH

B.SC. PHYSICAL SCIENCE, II YEAR



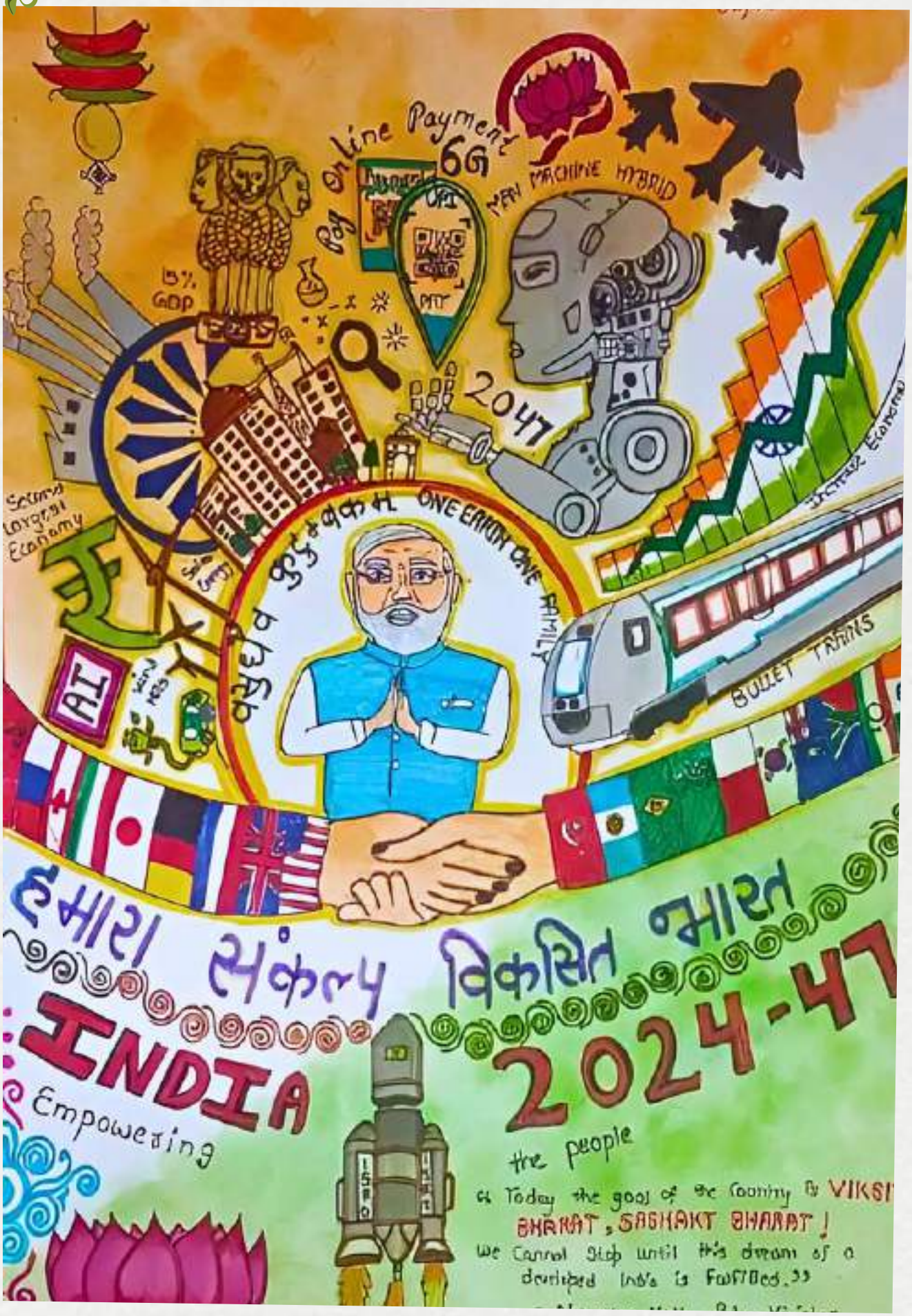
KASHISH

B.SC. PHYSICAL SCIENCE, II YEAR



MEHAK

B.SC (H) COMPUTER SCIENCE, II YEAR

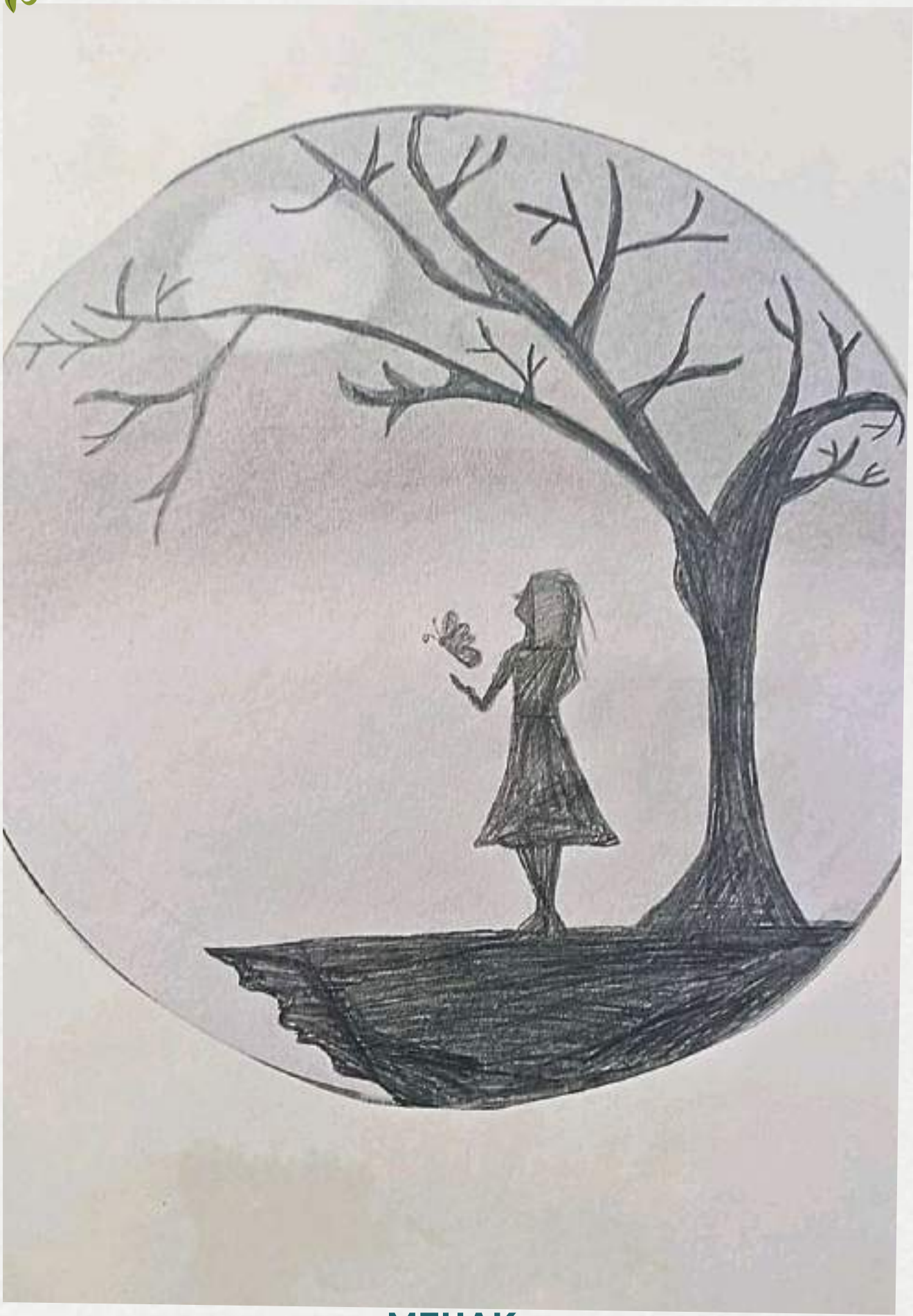


SANJANA DALAL

B.SC. (H) ZOOLOGY, II YEAR

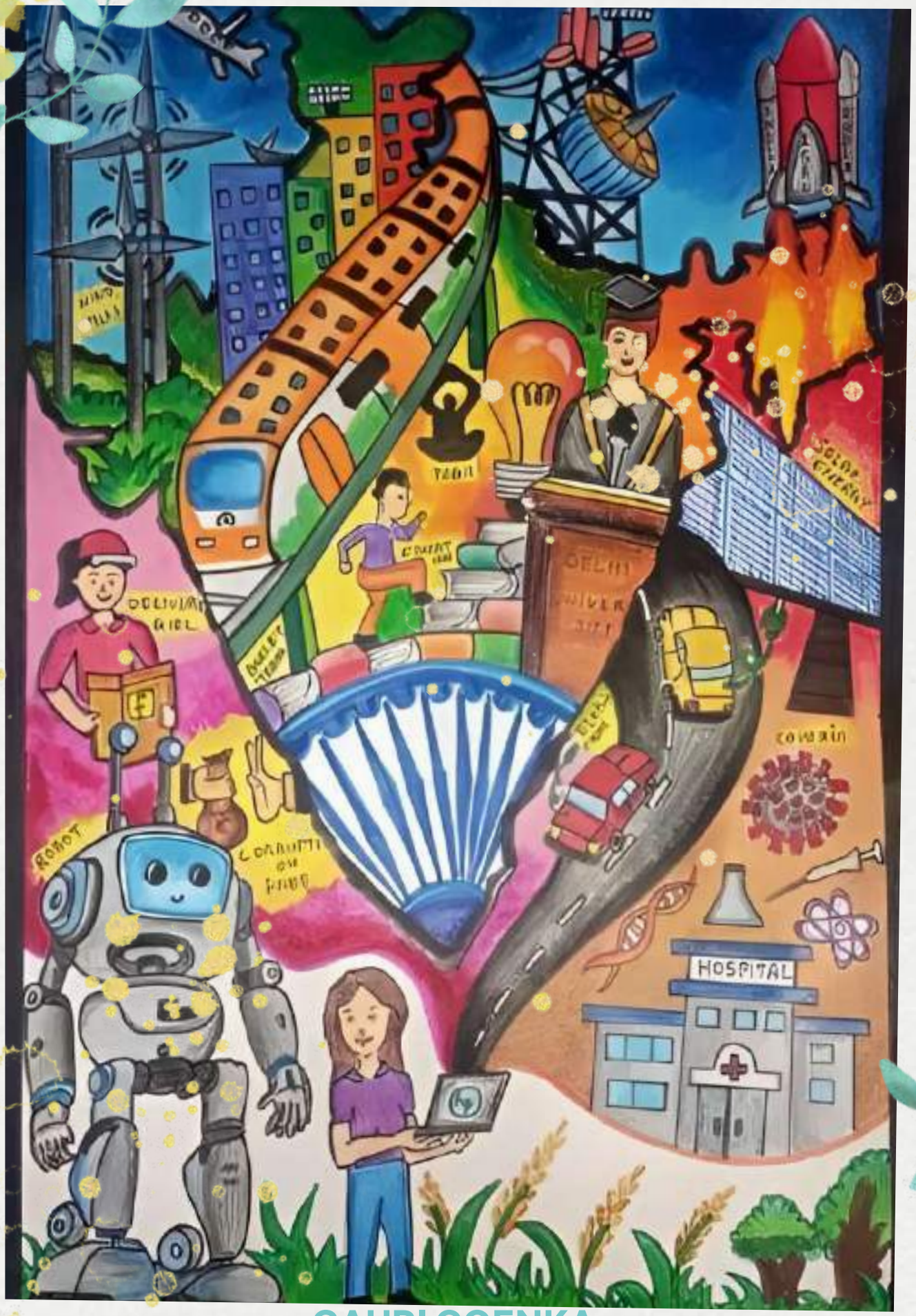
SHIVANGI YADAV

B.SC. (H) COMPUTER SCIENCE, II YEAR



MEHAK

B.SC.(H) COMPUTER SCIENCE, II YEAR



GAURI GOENKA

B.VOC. WEB DESIGNING, III YEAR

GALLERY

CODEX
SEMINAR

New Delhi, Delhi, India

FRESHERS

New Delhi, Delhi, India

WELCOME

GPS Map Camera
New Delhi, Delhi, India

Virtualisation

Miss Farewell

Runner Up

KALINDI COLLEGE

Thank you...

For Any Suggestions Contact. - newsletter_cs@kalind.du.ac.in