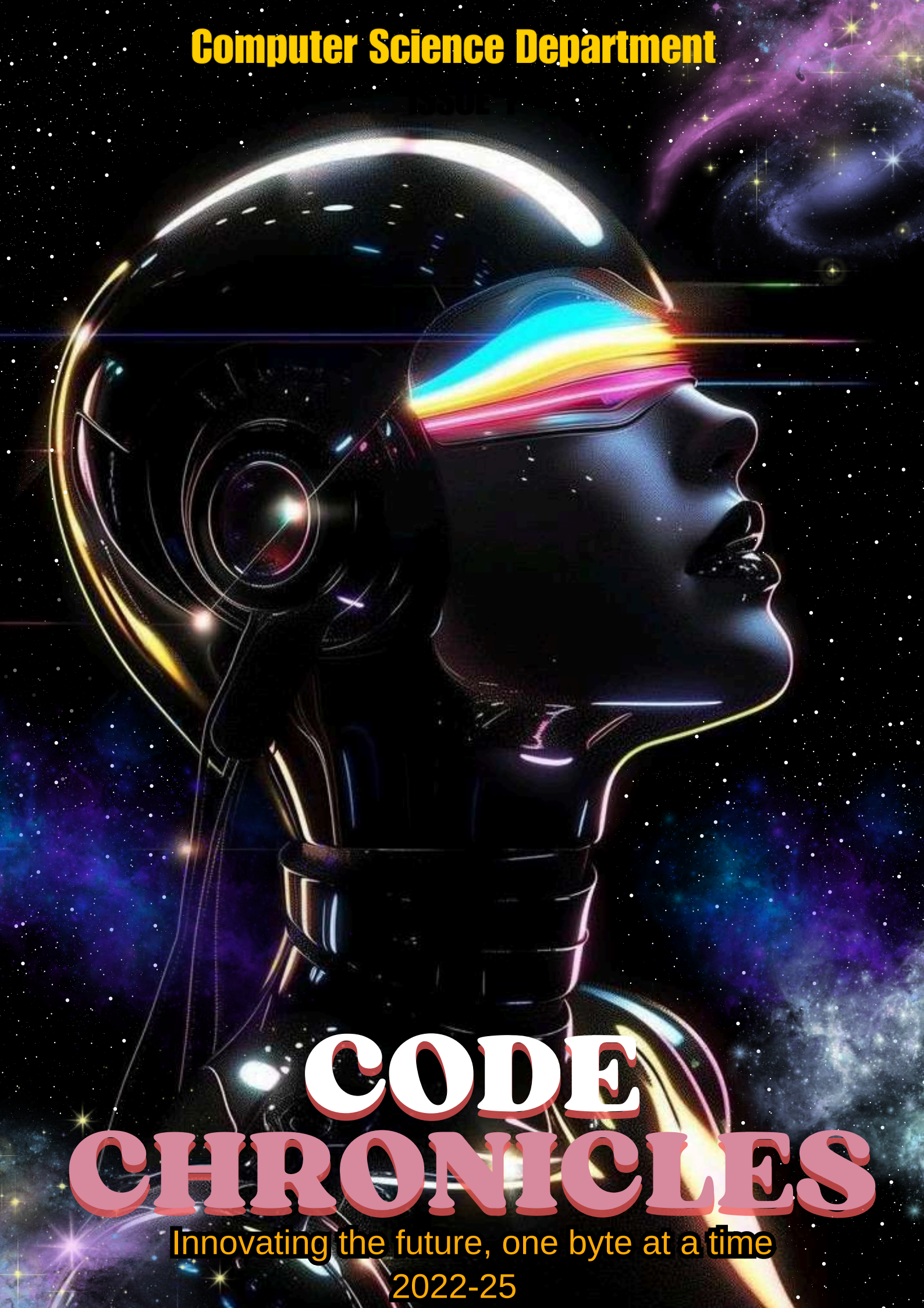
Computer Science Department



CODE CHRONICLES

Innovating the future, one byte at a time

2022-25

CONTENTS

MESSAGE FROM OUR PROFESSORS

DR. MOUSMITA DEVI
HoD

"Change is the only constant; changes are good for self and society"

Greetings to all !! The present times are the times of technological advancements with the usage of latest gadgets and gizmos. Keeping up with the demand of time, we are presenting to you the first edition of "CodeChronicles", the first e-magazine from Computer Science department. This magazine showcases the activities and achievements of the department. Further issues will include the articles, poems and creations of the students too. We would be coming up with the magazine at regular intervals. I am sure this periodical will keep you updated with the efficacy of the department.

DR. BIREN SARMA
ASSISTANT PROFESSOR

Dear students, it brings me great joy to address you through this **first edition** of our e-magazine. Education is not just about acquiring knowledge; it is about curiosity, creativity, and the courage to think beyond the ordinary. As you embark on your academic and personal journeys, I encourage you to embrace learning with an open mind and a passionate heart.This magazine is a testament to your ideas, insights, and creativity. Let it be a platform where you express your thoughts, share your experiences, and inspire one another.I applaud the dedication of every contributor and the editorial team for their hard work in bringing this edition to life. Keep learning, keep growing, and always believe in the power of your own voice. **Best wishes!**

MESSAGE
FROM OUR PROFESSORS

MR. GAUTAM KUMAR DAS
ASSISTANT PROFESSOR

It is a pleasure to extend my warm greetings to all readers of this e-magazine. The field of Computer Science is evolving at an unprecedented pace, shaping the way we interact, innovate, and solve real-world problems. As we navigate through this digital era, it is crucial to foster a mindset of continuous learning, creativity, and ethical responsibility in technology. This magazine serves as a platform to celebrate the achievements, ideas, and insights of our students and faculty. I encourage everyone to contribute, engage, and take inspiration from the remarkable work being done in this field. Let us continue to push boundaries, explore new possibilities, and build a future where technology serves humanity in the best possible way. **Wishing this edition great success!**

MS. TRISHNA SMITA DATTA
ASSISTANT PROFESSOR

Returning to my second home, not just as an alumnus but as a teacher, has been a deeply rewarding experience. Walking through the same hallways where I once sat as a student fills me with nostalgia and pride. The department that shaped my knowledge and values now gives me the opportunity to guide new learners on their own journeys.

As a student, I was inspired by passionate teachers who not only taught concepts but also instilled confidence and curiosity in me. Today, I strive to do the same for my students, encouraging them to think beyond textbooks and embrace learning as a lifelong process. The transition from learner to educator has been both humbling and empowering. It reminds me that **education is not just about knowledge—it's about connection, growth, and transformation.**

EDITOR'S NOTE

SHATABDI BORTHAKUR

The world runs on code, and we are its storytellers! Code Chronicles is not just a magazine—it's a window into the digital future, a space where ideas and innovation collide. Whether you're a coding enthusiast or just stepping into the tech world, we hope this issue ignites your passion for technology and problem-solving.

Enjoy the journey through these pages!

Shatabdi
Editor, Code Chronicles

RIYA AHMED

Technology is evolving faster than ever, shaping the way we live, work, and connect. Through Code Chronicles, we bring you insights into AI, cybersecurity, and the latest advancements in computer science. I hope this magazine sparks curiosity, encourages learning, and highlights the endless possibilities that the digital world has to offer.

Enjoy!!

Riya
Editor, Code Chronicles

ARTICLES by the students

Women in Technology: Bridging the Gender Gap

By Rosida Begum, 4th sem

In recent years, there has been an increasing push for diversity in the tech industry, with a particular focus on bridging the gender gap. Women remain underrepresented in technology-related fields, particularly in roles such as software engineering, data science, and leadership positions. However, despite the challenges, women are making significant strides toward breaking barriers, reshaping the tech landscape, and encouraging future generations to pursue careers in STEM (Science, Technology, Engineering, and Mathematics).

The Gender Gap in Technology

According to various reports, women make up less than 30% of the global workforce in technology, a number that is even lower in certain subfields like artificial intelligence and cybersecurity. The lack of female representation in the tech industry has multiple causes, including historical gender norms, biases in hiring practices, and the perception that technology is a male-dominated field.

Challenges Faced by Women in Technology

Women in technology often face a number of challenges:

1. **Unconscious Bias:** From hiring to promotions; unconscious bias can play a significant role in limiting opportunities for women. Studies show that women are often judged more harshly than their male counterparts, and their achievements may not be as readily acknowledged.

2. **Workplace Culture:** A lack of inclusive work environments and the absence of mentorship opportunities can contribute to women feeling isolated in male-dominated teams.

3. **Work-Life Balance:** The technology sector is known for demanding work hours, which can be difficult for women who are balancing family responsibilities. The lack of flexible work arrangements in some tech companies can exacerbate the gender disparity.

Initiatives to Promote Gender Equality

In response to these challenges, several initiatives have been launched to promote gender equality in tech:

1. **Women's Networks and Mentorship Programs**: Many tech companies and organizations now offer networks and mentorship opportunities designed to empower women and provide them with the guidance and support they need to thrive in the industry.

2. **Educational Programs:** To tackle the gender gap from the roots, organizations like Girls Who Code and Black Girls Code are encouraging young girls to get involved in coding and computer science. These programs offer educational resources, workshops, and mentorship to inspire and equip girls with the skills they need for future careers in technology.

3. **Inclusive Hiring Practices:** More companies are adopting inclusive hiring practices that focus on attracting women to tech roles. This includes creating gender-neutral job descriptions, ensuring equal opportunities for career advancement, and providing diversity training for hiring managers.

4. **Supportive Workplaces:** Companies are increasingly implementing policies that support work-life balance, such as flexible working hours, remote work options, and parental leave programs. These policies help ensure that women in tech can thrive in both their personal and professional lives.

A

By Neha Boro, 4th sem

Introduction

The World Wide Web (WWW), commonly known as the Web, is a global system of interconnected documents and multimedia content accessible via the Internet. It was invented by Tim Berners-Lee in 1989 while working at CERN (European Organization for Nuclear Research) and has since transformed the way people communicate, work, and access information.

How the World Wide Web works?

The Web operates through a system of webpages, which are hosted on web servers and accessed using web browsers (such as Google Chrome, Mozilla Firefox, and Microsoft Edge). The key technologies that power the Web include:

1. **Hypertext Transfer Protocol (HTTP):** A protocol that allows communication between web browsers and servers.

2. **Hypertext Markup Language (HTML):** The standard language used to create webpages.

3. **Uniform Resource Locator (URL):** The unique address used to locate resources on the Web.
When a user enters a URL in a browser, it sends a request to the server, which then returns the webpage to be displayed.

Evolution of the World Wide Web

Since its inception, the Web has evolved through three major phases:

1. **Web 1.0 (Static Web):** The earliest form of the Web (1990s), which consisted mainly of static pages with limited interactivity.

2. **Web 2.0 (Interactive Web)**: Emerged in the early 2000s, introducing user-generated content, social media, and interactive websites. Platforms like Facebook, YouTube, and Wikipedia became popular.

3. **Web 3.0 (Decentralized and Intelligent Web):** The current and evolving phase, incorporating artificial intelligence, blockchain technology, and the Semantic Web for smarter, more decentralized interactions.

Impact of the World Wide Web

The Web has had a profound impact on society, influencing multiple sectors, including:

Communication: Email, social media, and instant messaging have transformed global communication.

Education: Online learning platforms like Coursera and Khan Academy provide access to education worldwide.

E-Commerce: Companies like Amazon and Alibaba revolutionized online shopping.

Entertainment: Streaming services such as Netflix and YouTube have changed how people consume media.

Challenges and Future of the Web

Despite its benefits, the Web faces challenges such as cybersecurity threats, misinformation, and data privacy concerns. Innovations in artificial intelligence, the Internet of Things (IoT), and quantum computing are expected to further shape its future.

Conclusion

The World Wide Web has revolutionized the way humans interact and share information. As technology advances, the Web will continue to evolve, offering new opportunities and challenges for users worldwide.

A BRIEF HISTORY OF THE INTERNET OF THINGS

BY SHALMA KHATOON, 4TH SEM

The concept of the Internet of Things (IoT) has been around for several decades, with its roots dating back to the 1980s. Here's a brief overview of the key milestones that have shaped the IoT as we know it today:

* **1982**: The term "Internet of Things" was first coined by Ashton, a British businessman and engineer.

* **1990s**: The IoT began to take shape with the development of wireless sensor networks and embedded systems. This era saw the emergence of smart homes, where devices such as thermostats and lighting systems could be controlled remotely.

* **2008**: The concept of IoT gained momentum with the publication of a report by the Massachusetts Institute of Technology (MIT) on the potential for IoT to transform industries and society.

* **2010s**: The IoT began to proliferate with the widespread adoption of smartphones, tablets, and other mobile devices. This era saw the growth of cloud computing, big data analytics, and the development of IoT platforms and protocols (such as Zigbee and Wi-Fi).

* **Present Day**: The IoT is now a ubiquitous technology, with an estimated 27.4 billion devices connected to the internet by 2025. The IoT is being applied across various industries, including healthcare, transportation, energy, and finance, to name a few.

The Internet of Things has come a long way since its inception in the 1980s. From its early days as a concept to its widespread adoption in various industries, the IoT has evolved significantly and continues to shape the world we live in today.

A TRIP TO REMEMBER

26 oct 2024

OUR UNFORGETTABLE KANOKA ADVENTURE

By RIYA AHMED ,6th sem

PLANNING A TRIP WITH FRIENDS IS ALWAYS EXCITING, BUT EXPERIENCING IT IS A WHOLE NEW LEVEL OF JOY. OUR MUCH-AWAITED JOURNEY TO KANOKA VILLAGE RESORT TOOK PLACE ON 26TH AND 27TH OCTOBER 2024. PLANNED A MONTH IN ADVANCE, OUR PROFESSORS ORGANIZED THIS TRIP FOR US, MAKING IT ONE OF THE MOST MEMORABLE EXPERIENCES OF OUR LIVES.

The Journey Begins

On 26th October , our excitement knew no bounds as we boarded a traveler early in the morning. Our professors had informed us that it would leave around 7:30 AM, so everyone got up as early as 5:30-6 AM to get ready. By 7:30 AM, we all gathered, took our seats, and began our journey with loud music and endless dance sessions and even our professors joined in the fun. Except for Mehar ,who was the only one not dancing—she was asleep throughout the entire journey! We even had breakfast inside the traveler , making the ride even more fun. After hours of non-stop dancing and singing, we finally arrived at Kanoka Village Resort around 12 PM.

Arrival and First Impressions

The moment we entered the resort, we were left speechless. The lush greenery, the fresh air , and the scenic beauty made it feel like a paradise. We had already booked our accommodations in advance, so we checked in smoothly. Some of us changed clothes, while others—like me—didn't bother at all!

Exploring Kanoka and Outdoor Fun

Without wasting much time, we headed out to explore the resort, One of the most beautiful spots was a small, charming river surrounded by stones. Sitting there, taking pictures, and soaking in the peaceful atmosphere felt surreal. If given a chance, I could sit there all day, every day! Next, we went for one of the most thrilling activities —zip lining. At first, we were all nervous, questioning how difficult it would be. But once we completed our first ride, we were hooked! We enjoyed it so much that we wanted to do it again and again.

A Taste of Assamese Tradition

After zip lining, we were called for lunch, where we got to enjoy an authentic Assamese thali. The entire dining area was beautifully crafted with bamboo structures, making the experience even more special. The absence of plastics, the fresh air, and the natural surroundings made Kanoka feel like a world away from city life.

An Engaging Seminar

Post-lunch, we took a short break before attending an engaging seminar on gaming and its impact on life. The session was incredibly informative, and we learned things we had never thought of before. It was a perfect blend of fun and learning

Dance, Bonfire & Our "Department Song"

After the seminar , we freshened up and gathered in one room, where we had a crazy dance party. Soon after , we headed to the bonfire, specially arranged for us. A live singer performed, and when she finished, we took over with our own music and danced till midnight!
One of the highlight moments of the trip was **our "Department Song"—Mere Mehboob!** Our HOD taught us the dance steps, and we performed it more than five to ten times. Everyone, including our professors and even the resort staff, joined in. It became our special song, forever marking this trip in our memories.

Midnight Pranks

Even after dancing for hours, we refused to sleep. Initially, we planned to make reels and play UNO, but some of our friends decided to sleep early for the sunrise. Mehar , as usual, found us too noisy and shifted to another room. **Then came the best part of the night—a ghost prank! Around 2 AM**, we started hearing strange sounds, like payal (anklet) footsteps and sudden knocking on the door . We got scared and hesitated to open it. But when we finally did, we saw our own friends disguised as ghosts, wearing white towels and sunglasses! They had planned this prank just to scare us, and it worked! Then we teamed up and pranked our juniors. We knocked on their doors, flickered the lights, and made crying sounds. They were so terrified that they started chanting **Hanuman Chalisa!** It was the most hilarious moment of the trip.

Wrapping Up the Adventure

After lunch, it was time to say goodbye to Kanoka Village Resort. We packed our bags, clicked our final group pictures, and boarded the traveler back to Guwahati. Of course, the journey didn't end quietly — we continued dancing, singing, and reliving every beautiful moment until we reachedhome.

Chasing the Sunrise & More Adventures

After all the fun, we finally decided to take a short nap around 3:30 AM since we had to wake up early for the **sunrise** at 5 AM. Some of us, including Shatabdi, didn't want to wake up, but we made sure everyone did! After returning from the sunrise, we enjoyed a delicious breakfast and spent the morning making reels. Then came more activities like **boating**, **basketball**, and other sports. Before lunch, **we visited Assamica Agro**, where we saw fascinating machinery and processes usedin agriculture. It was an educational yet fun experience, adding more value to our trip.

A Trip to Cherish Forever

This trip wouldn't have been possible without our professors. They didn't just organize it—they became part of our fun, making this experience truly unforgettable. From dancing on the bus to ghost pranks at night, every moment was pure magic. Kanoka Village Resort gave us more than just a getaway—it gave us a lifetime of memories. And even today, when we hear Mere Mehboob, it takes us right back to those incredible two days! This was more than just a trip — it was an experience of a lifetime. And without a doubt, Kanoka is a place worth revisiting. We hope to return one day and relive these beautifulmemories all over again!

STAYING SAFE IN THE DIGITAL WILD WEST

A Student's Guide to Cybersecurity

By Dikshita Sarma, 2nd sem

Have you ever thought about how much of your life exists online?
From Instagram posts to banking details, our digital footprint grows larger every day. But here's a shocking fact: every 39 seconds, a cyberattack occurs somewhere in the world. As students in an increasingly connected world, we need to understand how to protect ourselves in this digital wilderness.

The Rising Tide of Cyber Threats
Remember that time when everyone's Facebook was supposedly "hacked"? While some of these incidents might have been simple password issues, cybercrime has become increasingly sophisticated. In 2022 alone, cybercrime caused over $6 trillion in damages globally—more than the GDP of many countries combined!

Your Digital Life at Risk
As students, we're particularly vulnerable. Think about it: how many of us use the same password for multiple accounts? From our educational platforms to payment apps, we're constantly logging into various services. Each login is a potential entry point for hackers. Emerging Cyber Threats Cyber criminals are always evolving their tactics.
Here are some growing threats to be aware of:
 AI-Powered Phishing Attacks: Scammers now use AI to create highly convincing fake emails and messages.
 Deepfake Scams: AI-generated voices and videos are being used for fraud.
 Ransomware Attacks: Hackers lock your data and demand payment for its release.
 Data Breaches: Even large companies suffer leaks, putting your information at risk.

Simple Steps, Strong Protection
The good news? You don't need to be a computer genius to protect yourself. Here are practical steps you can take today:
*** Password Power-Up
✓ Use unique passwords for different accounts
✓ Consider a password manager
✓ Enable two-factor authentication wherever possible
*** Wi-Fi Wisdom
✓ Avoid using public Wi-Fi for sensitive activities
✓ Use a VPN when connecting to public networks
✓ Keep your personal hotspot password-protected
*** Social Media Savvy
✓ Think twice before sharing personal information
✓ Regularly check privacy settings
✓ Be wary of suspicious messages, even from friends

The Future of Digital Security

As we move toward a more connected future with smart devices, cryptocurrency, and AI, cybersecurity becomes even more critical. According to experts, by 2025, we'll have over 75 billion connected devices worldwide. Each device is potentially both a tool and a vulnerability. Taking Action Start with these simple steps: Audit your current passwords Enable two-factor authentication Update your devices regularly Learn to recognize phishing attempts Back up important data

The Choice Is Yours

In today's digital age, cybersecurity isn't optional—it's essential. Just as you wouldn't leave your house unlocked, don't leave your digital life unprotected. The threats are real, but so are the solutions. Every small action you take—whether it's updating an old password or enabling two-factor authentication—makes a difference. A safer internet starts with you. So, what's your first step? Maybe it's finally updating that password you've been using since high school. Your future self will thank you.

HOW OPEN SOURCE IS CHANGING THE WORLD?

BY JANMONI KHANAM, 4TH SEM

In the past, technology was largely controlled by corporations that built and sold proprietary software. But today, open-source technology is transforming industries, empowering individuals, and shaping the future in ways we never imagined. Open source is more than just freely available code—it's a philosophy of collaboration, transparency, and shared innovation.

From powering the internet to advancing artificial intelligence, let's explore how open source is changing the world.

1. Open Source Runs the Internet
The modern internet would not exist without open-source software. From web servers to programming languages, open-source tools power the backbone of the online world. Linux, an open-source operating system, runs most web servers, smartphones (Android), and even supercomputers.Apache and Nginx, open-source web servers, host a majority of the world's websites. WordPress, an open-source content management system, powers over 40% of all websites.Without these freely available technologies, the internet would be vastly different—more expensive, less accessible, and dominated by a few large corporations.

2. Driving Innovation in Software Development
Open-source development is accelerating innovation at an unprecedented rate. Instead of a single company working in isolation, open-source projects involve thousands of contributors worldwide, leading to faster improvements and better security.Projects like Kubernetes (used for cloud computing) and TensorFlow (an open-source AI library) are shaping industries ranging from finance to healthcare. The collaborative nature of open source ensures that technology evolves rapidly, benefiting both businesses and individuals.

3. Making AI and Machine Learning Accessible
Artificial intelligence (AI) is transforming industries, and open-source AI frameworks are making these powerful tools available to everyone. Companies like Google, Facebook, and OpenAI have released open-source AI models that allow researchers and developers to build upon their work. PyTorch and TensorFlow make AI research accessible to students and startups.Hugging Face provides open-source NLP (natural language processing) models for chatbots, translation, and more.Stable Diffusion enables artists and designers to create AI-generated images.Without open-source AI, cutting-edge advancements would be limited to a handful of tech giants. Instead, developers around the world can experiment, improve, and expand on these technologies.

4. Enhancing Cybersecurity Through Transparency
Open source plays a crucial role in cybersecurity by ensuring that software vulnerabilities are detected and fixed quickly. Unlike closed-source software, where security flaws can remain hidden, open-source code is continuously reviewed by experts worldwide. Projects like OpenSSL, which secures online communications, and Let's Encrypt, which provides free SSL certificates, have made the internet safer. Even government agencies and corporations rely on open-source security tools to protect their systems.

5. Reducing Costs and Closing the Digital Divide
For businesses, governments, and individuals in developing nations, open-source software is a game-changer. Instead of paying for expensive proprietary software, organizations can use open-source alternatives for free. LibreOffice is a free alternative to Microsoft Office. Linux provides a cost-effective operating system for businesses and governments. OpenMRS helps hospitals manage patient records in low-income regions. By eliminating licensing fees, open source allows more people to access and benefit from technology, closing the digital divide.

6. Revolutionizing Science and Research
Open-source principles are now shaping scientific research, making knowledge more accessible and transparent. Researchers are sharing data, software, and findings openly, allowing for faster discoveries and greater collaboration. OpenAI is making AI research widely available. OpenStreetMap provides free global mapping data. GNU Health is improving healthcare systems with open-source medical software. During the COVID-19 pandemic, open-source collaboration helped speed up vaccine research and distribute critical medical knowledge worldwide.

7. Creating New Career Opportunities
Open source is not just about software—it's also a way for people to learn, contribute, and build careers. Many developers start their careers by contributing to open-source projects, showcasing their skills to potential employers. Platforms like GitHub and GitLab serve as global portfolios, allowing developers to demonstrate their expertise. Companies actively seek employees with open-source experience because it proves their ability to collaborate and solve real-world problems.

Conclusion
Open source is not just changing the world—it is building the world. From running the internet to driving AI and cybersecurity, open-source technology is at the heart of modern innovation. It is making technology more accessible, secure, and ethical, ensuring that the digital future is open to all. As more individuals, businesses, and governments embrace open source, its impact will only continue to expand, shaping a more connected and collaborative world.

IF COMPUTERS COULD TALK...

~ Risha Moni Barman ,2nd sem

LOADING... MY PATIENCE IS RUNNING LOW!

Dear Humans, I am your computer. Yes, the same one you overwork daily, opening 100 Chrome tabs while expecting me to function like a supercomputer. Have you ever wondered how I feel? No? Well, sit tight because I have a lot to say today!

Also, if you keep ignoring my updates, don't blame me when I crash at the worst possible time. Let's not even talk about your file management skills. You dump everything on the desktop and name files like 'Finally_project_completed.docx'. Then, when you can't find something, you blame me. I have folders—use them cutie!

And oh, the printer? Don't get me started. Even I don't understand how it works. It has a mind of its own, printing test pages whenever it feels like it but refusing to print your actual documents when you need them urgently.

First of all, why don't you ever clean me? My keyboard is full of snack crumbs, my screen is covered in fingerprints, and my fans are suffocating from dust. You expect me to run smoothly, yet you treat me like an old notebook tossed aside when not in use. Then there's the pressure of multitasking. You install heavy software, run video calls , Netflix , stream music and what not,basically you try to do all at once, and then scream at me when I lag. Newsflash: I am not a magician!

Despite all this, I still work hard to keep your life running smoothly. All I ask in return is a little care—clean me, update me on time, and for heaven's sake, stop typing me with your WET HANDS!!!

With overheated regards,
Your (tired) Computer.

MY FINAL YEAR IN HANDIQUE GIRLS' COLLEGE : A JOURNEY OF LEARNING, FUN & MEMORIES

By Shatabdi Borthakur, 6th sem

Wow, I can't believe that I'm finally in my last semester! Feels like just yesterday I was a clueless first-year student, staring at my screen, wondering why my code wouldn't run (spoiler: it was always a missing semicolon). And now, here I am, wrapping up my project, thinking about what's next, and feeling a bit nostalgic about this whole journey. College has been such a mix of learning, stress, fun, and unforgettable memories, and I just want to take a moment to reflect on it all.

One thing that I've realized? Computer Science isn't just about writing code—it's about solving problems. Debugging a program at 2 AM only to realize I forgot a semicolon? Been there. But those moments made me better at thinking logically and dealing with errors—both in code and in life. I have been in Handique since 2020. From Higher Secondary to a graduate in just few more months in 2025, I've come a long way, making many unforgettable moments. Loved the CS dept. in Handique during my HS times and hence , I was back to be a part of the family.

Memorable Moments with the Teachers

I have to say, my teachers played a huge role in my journey. They are the constant supporters of us, wanting our best. The love, the scoldings, the fun and every moment spent with them will be forever cherished by us. Mausmita ma'am is the motherly HOD who with her wisdom and warmth, guides us like a mother—firm when needed, caring always, and endlessly inspiring; she has got a great fashion sense too and never fails to look cute everytime; Gautam sir is the fire brigade whom we would run to whenever our code doesnt work and the way he would solve it as if it's a piece of cake left us wanting to learn more and more from him; Biren sir is the chillest person, always supportive , guiding us and always there whenever we needed any kind of advice, of course his notes are unforgettable; Trishna ma'am is the friendliest with whom learning is really fun and she looks pretty in any attire that she wears and she has many experiences in her life through which she is able to show us the correct path to choose for our career. Most common words that you would hear us say are ," Aaji Ma'am hotok emaan dhuniya laagise😭😭". Whether it was explaining a concept for the tenth time or giving career advice, their support meant a lot. And those casual classroom discussions? The best! Those were the moments where learning felt fun and effortless. Also, a great shoutout to Ranjit da. What a simple and cool person he is! Always helping around the dept., the teachers and the students.

Seniors: The Real Icons

If there's one thing that made my early college days easier, it was my seniors. From helping me with assignments to giving me advice on which subjects to focus on, they were always there. Some of them became mentors, some became friends, and a few even turned into my biggest inspirations. Whether it was guidance on internships, dancing and singing together, or just random fun conversations, they played a huge role in shaping my journey. They were also patient enough to forgive us for the mistakes we made and guided us on how to not repeat mistakes.

Cultural Activities & The Fun Side of College

Now, let's talk about the real fun—cultural events! Participating in programmes and music competitions were my truly favorite parts of college life. The rehearsals, the excitement before going on stage, the celebrations afterward—it all made college so much more than just academics.

And, of course, my friends made everything better. Late-night calls, teasing each other, fighting over silly topics, eating street food, drinking free ka momo wala soup, random birthday celebrations, and laughing at the most ridiculous things in class—I wouldn't trade these memories for anything.

Message for my Juniors

To those who still have some time left in college, here's what I've learned:

1. Start early – Work on projects, explore internships, and build skills beyond what's in the syllabus.
2. Ask questions and attend classes – Seriously, don't be afraid to ask. It saves a lot of time and confusion. Attending your classes make you understand the topics better and also maintains your attendance percentage. Hehe.
3. Find good seniors – They'll guide you, help you, and make college life a lot easier.
4. Join events – fests, cultural activities—these are where you make the best memories.
5. Take breaks – College can be stressful, but don't let it drain you. Go on trips, hang out with friends, do things you love.
6. Enjoy the journey – It's not just about getting a degree, it's about growing as a person.

What's Next?

As much as I'm excited about the future, I know I'll miss these days. The last-minute assignment rush, the canteen ka khana, the festival celebrations—everything. College wasn't just about studies; it was about the people, the experiences, and the memories we made along the way.

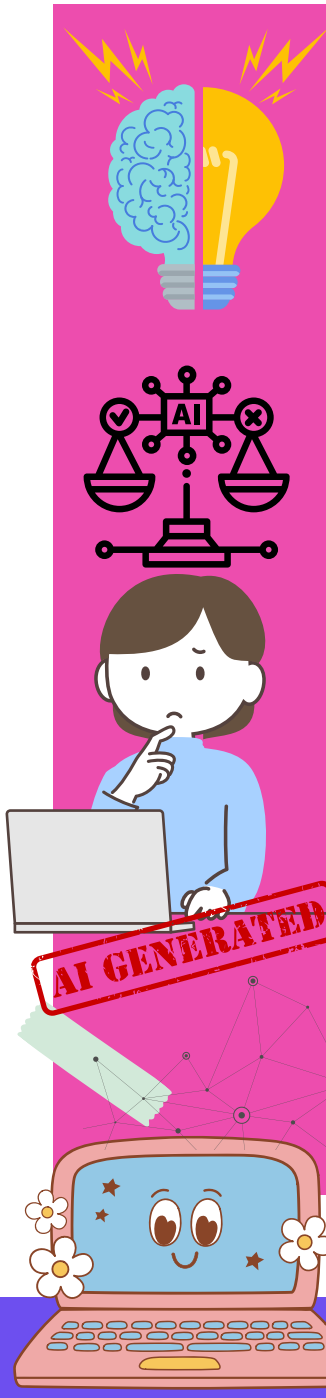
To my juniors—make the most of your time here. To my teachers—thank you for everything and being our constant supporters, . To my seniors—you were the coolest guides.

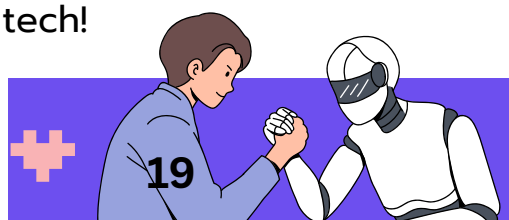
And to my friends/batchmates— I cherish you guys for being a part of my life. We've laughed together, fought, gossiped, studied, danced, sang, etc, etc, etc. My dear 6th sem girlies, I'll miss you guys even though you gave me headache sometimes. Adios !!

Myths About Coding and Technology - Quick Debunking

By Kasmita Kashyap, 2nd Sem

1. "Coding is only for math geniuses."
Truth: Logical thinking is more important than math. Many great coders have minimal math skills.
2. "Once you learn one programming language, you know them all."
Truth: Concepts may be similar, but syntax and applications differ across languages.
3. "Technology is 100% secure."
Truth: No system is completely hack-proof; security updates are crucial.
4. "AI will replace all human jobs."
Truth: AI enhances productivity but lacks creativity and emotional intelligence.
5. "More code means better software."
Truth: Efficient, clean code is better than long, complex code.
6. "Old programming languages are obsolete."
Truth: Many old languages like COBOL and C still power critical systems.
7. "You need a CS degree to be a programmer."
Truth: Many top developers are self-taught through online courses and practice.
8. "Tech jobs are only for young people."
Truth: Experience matters, and people of all ages succeed in tech careers.
9. "The internet is infinite."
Truth: The internet is vast but limited by infrastructure and private networks.
10. "Restarting your computer fixes everything."
Truth: It helps with minor issues but isn't a solution for deeper problems.
Final Thought: Knowing the truth behind these myths helps you make better decisions in tech!





EXPLORING THE WORLD OF VIRTUAL REALITY

A New Dimension of Human Experience

By Esha Daimari, 4th sem

Virtual Reality (VR) has been a topic of interest for decades, but recent advancements in technology have made it more accessible and affordable for consumers. From gaming and entertainment to education and healthcare, VR is transforming industries and revolutionizing human experience.

What is Virtual Reality?

VR is a computer-generated simulation of a three-dimensional environment that can be experienced and interacted with in a seemingly real or physical way. The key components of VR include head-mounted displays (HMDs), controllers, and sensors that track the user's movements and provide feedback.

In Virtual Reality (VR), immersion is the perception of being physically present in a non-physical world. The perception is created by surrounding the user of the VR system in images, sound, or other stimuli that provide an engrossing total environment.

People who are isolated could be able to collaborate in a virtual setting thanks to VR. Already 70% of workers use telecommunications, and more and more are working entirely from home.

Virtual Reality places the viewer inside a moment or a place, made possible by visual and sound technology that makes the brain into believing it is somewhere else. It is an experience of a world that does not exist.

Sounds cool, right?

Virtual Reality tricks one's mind using computers that allow one to experience and, more interestingly, interact with a 3D world.Overall, VR offers a fascinating way to explore, interact with, and experience new worlds, making it a powerful tool for both fun and practical applications.VR systems can vary in how immersive they are, from fully immersive experiences to more basic ones that you can use with just a computer and monitor. VR is important because it offers new ways to learn, train, and experience entertainment. It allows people to practice skills in a safe environment, explore places they couldn't otherwise visit, and enjoy highly immersive entertainment. This technology has the potential to revolutionize many fields by making learning and training more effective and experiences more engaging.

EVOLUTION OF COMPUTERS

By Ribika Daimari , 4th sem

The computer, as we know it today, is a result of centuries of innovation, technological advancements from humble beginnings to modern marvels. The evolution of computer has transformed the way we live, work, and communicate. We will explore the major milestones in the development of computers and how they have impacted our lives.

The Mechanical Era (1642–1822)

The first mechanical calculator, the Pascaline, was invented by Blaise Pascal in 1642. This device could perform basic arithmetic operations like addition and subtraction.

The Electronic Era (1936–1959)

The first electronic computer, the Z1, was built by Konrad Zuse in 1936. This machine used binary code and floating point arithmetic to perform calculations. The development of electronic computers accelerated during World War II, with the creation of machines like ENIAC (Electronic Numerical Integrator and Computer).

The Transistor Revolution (1959–1971)

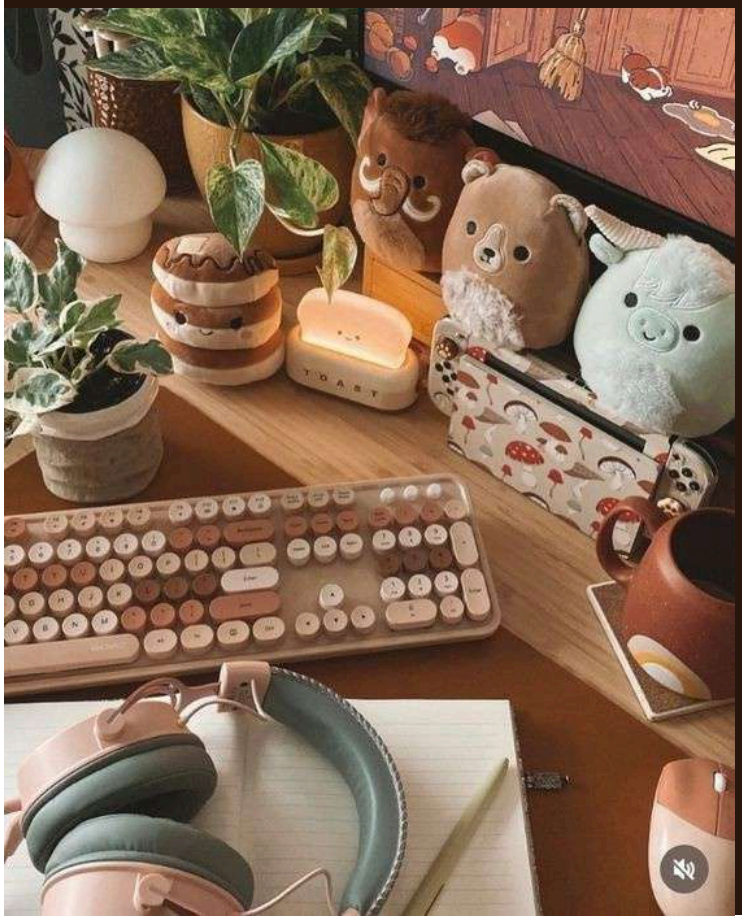
The invention of the transistor in 1947 revolutionized the development of computers, replacing vacuum tubes and making computers smaller, faster, and more reliable.

The Personal Computer Era (1971–1984)

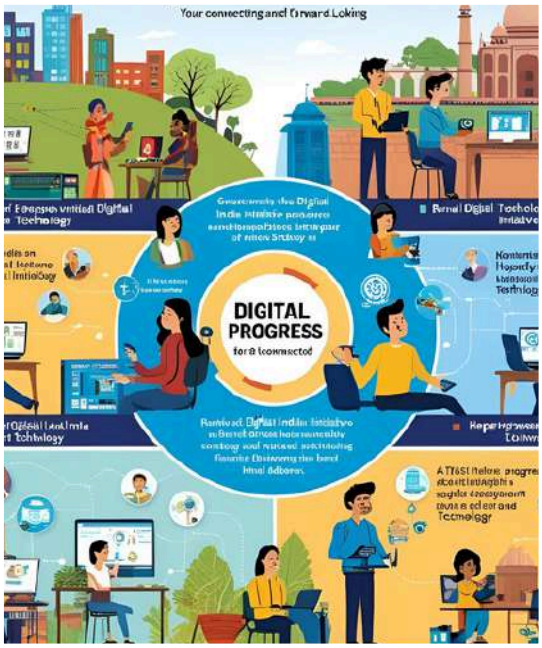
The first personal computer, the Kenbak-1, was designed by John Blankenbaker in 1971. It was followed by the Apple computer, designed by Steve Wozniak and Steve Jobs in 1976.

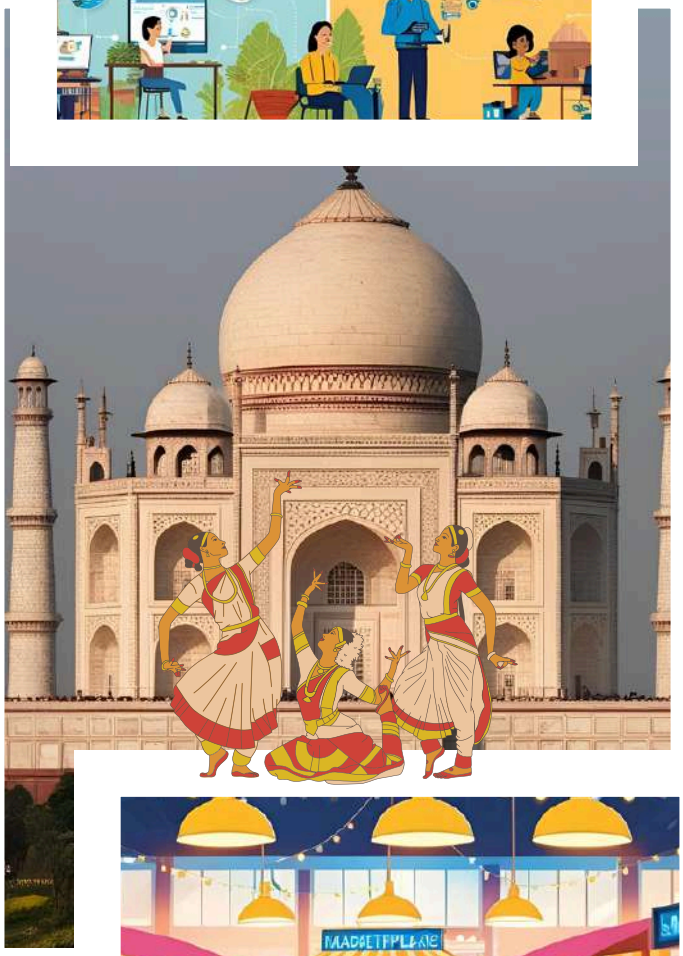
The Modern Era (1984–Present)

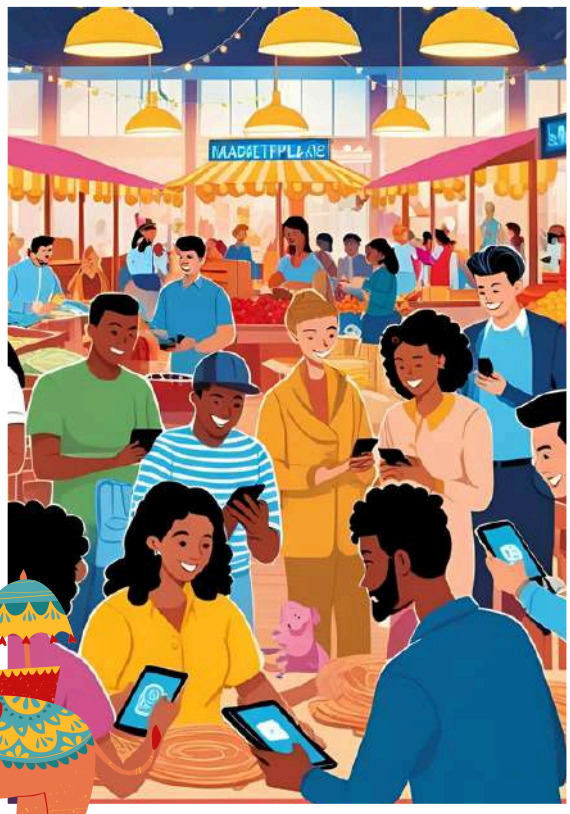
The 1980s saw the rise of the internet, which transformed the way we communicate and access information. The development of mobile devices, smartphones, and tablets has further revolutionized how we use computers.



The evolution of computers has been a remarkable journey, from humble beginnings to modern marvels, transforming the way we live, work, and communicate. As technology continues to advance, we can expect even more exciting developments in the world of computing, enabling us to solve complex problems, explore new frontiers, and push the boundaries of human potential.







THE POWER OF DIGITAL INDIA

By Anuja Upadhya, 4th sem

The Power of Digital India Initiatives:
In 2015, the Government of India launched the Digital India initiative, aiming to transform the country into a digitally empowered society. This ambitious program has been instrumental in bridging the digital divide, fostering innovation, and improving the quality of life for citizens.

Key Initiatives and its impact:
1. Digital Literacy- Programs like Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA) have empowered millions of rural Indians with digital skills, enabling them to access essential services and participate in the digital economy.

2. Digital Payments- BHIM, UPI, and Aadhaar Pay have revolutionized the way Indians make transactions, promoting cashless economy and financial inclusion.

3. E-Governance- Platforms like UMANG and e-District have simplified access to government services, reducing bureaucratic hurdles and increasing transparency.

4. Digital Health- Telemedicine and e-Hospital initiatives have expanded healthcare access to remote areas, ensuring quality medical care for all.

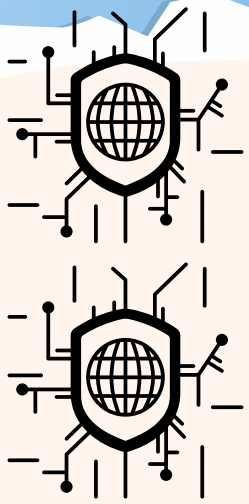
5. Smart Cities- Integrated command and control centers have enhanced urban governance, enabling efficient management of public services and infrastructure.

Pioneering a digital tomorrow:
Digital India initiatives have paved the way for a more connected, efficient, and inclusive society. As we move forward, we can expect:

*Increased digital literacy and skills development
*Expanded access to digital services and governance
*Growing adoption of emerging technologies like AI, blockchain, and IoT
*Improved healthcare, education, and financial outcomes

CYBERSECURITY IN AN INCREASINGLY CONNECTED WORLD

By Momi Das, 4th sem



Our increasingly connected world, while offering unprecedented convenience, presents a growing cybersecurity challenge. From smart homes to cloud computing, the expanding digital landscape creates numerous vulnerabilities, making us all potential targets. Cyberattacks are becoming more sophisticated, ranging from ransomware crippling businesses to phishing scams tricking individuals into revealing sensitive information. Data breaches expose personal details, leading to identity theft and financial ruin. The stakes are high, impacting individuals, businesses, and even national security.

Protecting ourselves requires a multi-layered approach. Strong, unique passwords and multi-factor authentication are fundamental. Regular software updates patch security holes, while antivirus and anti-malware software provide essential protection. Firewalls act as gatekeepers, blocking unauthorized access. Data encryption safeguards information, rendering it useless to hackers. Perhaps most importantly, security awareness training educates individuals about online threats and best practices.

The future of cybersecurity relies on innovation. Artificial intelligence and machine learning can detect and respond to attacks in real-time. Zero trust security models assume no user or device is inherently trustworthy, requiring constant verification. Blockchain technology may offer solutions for secure data storage. However, even with these advancements, cybersecurity remains a shared responsibility. Staying informed, practicing good digital hygiene, and remaining vigilant are crucial for navigating the risks of our hyper-connected world and ensuring a safer digital future for everyone.

Quantum Computing: The Future of Superfast Computation

By Aakanksha Sinha, 6th sem

Introduction:

In a world that is increasingly influenced by data and complex computations, quantum computing stands out as a groundbreaking technology. Unlike traditional computers that operate on bits (0s and 1s), quantum computers utilize qubits, which allow them to process information in a unique manner. So, what makes quantum computing so remarkable? Let's delve into its fundamental principles, applications, and future possibilities.

Understanding Quantum Computing:

Quantum computing is grounded in two essential principles of quantum mechanics:

1. Superposition – A qubit can exist in multiple states (0 and 1) at the same time, enabling quantum computers to execute numerous calculations simultaneously.

2. Entanglement – When qubits are entangled, the state of one instantly affects the state of another, no matter the distance between them. This characteristic facilitates extremely rapid data processing.

These principles combined empower quantum computers to tackle problems that would be virtually impossible for classical computers to solve.

Applications of Quantum Computing:

The potential applications of quantum computing are vast and could revolutionize several industries:

- Cryptography – Quantum computers could crack current encryption methods but also develop ultra-secure quantum encryption techniques.
- Healthcare – They can accelerate drug discovery by simulating molecular structures with greater accuracy.
- Artificial Intelligence – Quantum computing improves machine learning capabilities by handling large datasets more effectively.
- Finance – It has the ability to enhance investment portfolios and risk assessment processes.
- Climate Science – Quantum models can lead to better weather forecasting and simulations of climate change.

Challenges and the Road Ahead:

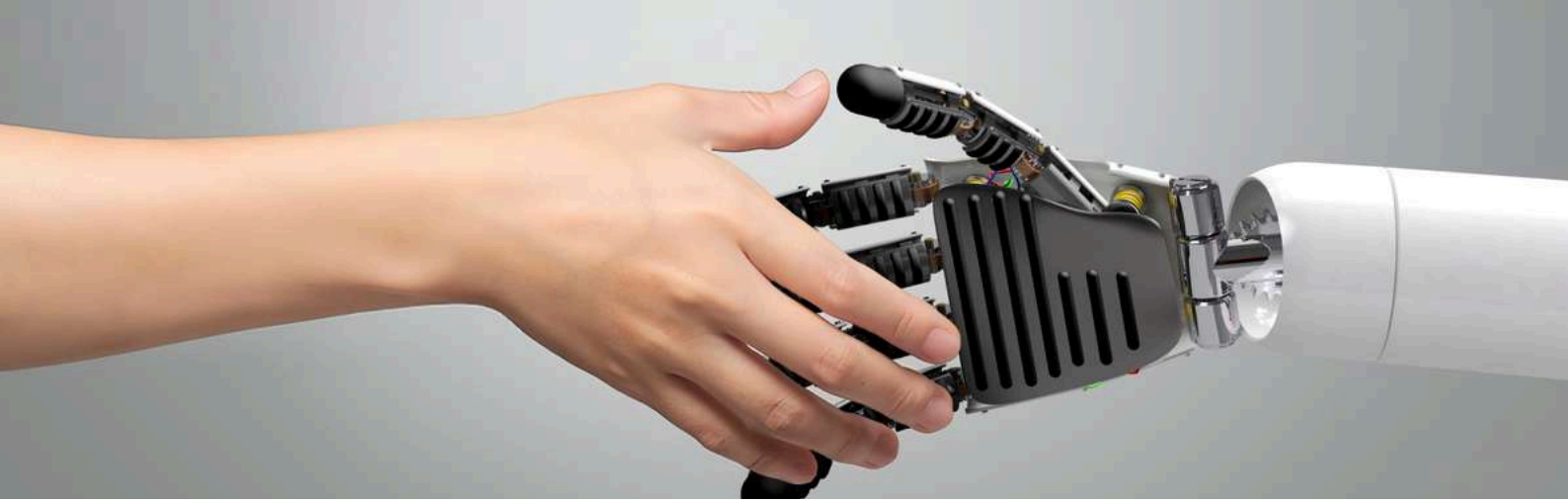
However, the journey towards quantum computing is fraught with challenges:

- Hardware Stability – Qubits are extremely sensitive to external influences, making their stability a significant issue.
- Error Correction – Quantum systems are susceptible to errors, necessitating sophisticated error correction methods.
- Scalability – Creating large-scale quantum computers presents considerable technological challenges.

Major companies like Google, IBM, and Microsoft are pouring resources into quantum research, which brings us closer to realizing practical quantum computing.

Conclusion:

Quantum computing represents more than just a vision for the future; it is an evolving discipline that has the potential to transform our world. Although there are still hurdles to overcome, its capacity to tackle intricate problems in mere seconds—tasks that would require classical computers years to finish—positions it as one of the most thrilling developments in technology. The quantum revolution is approaching—are we prepared for it?



AI Ethics and Bias: Can We Trust Artificial Intelligence?

By
Harinakshi Baishya
4th sem

Introduction

Imagine going for a job interview, but instead of a human deciding your fate, an AI scans your resume and instantly rejects you. Why? It doesn't know. It just follows patterns. If the data it learned from favors certain groups over others, it unknowingly repeats those biases.Artificial Intelligence is shaping the world around us—recommending what we watch, deciding who gets a loan, and even influencing legal decisions. But here's the problem: AI isn't perfect. It learns from humans, and humans are full of biases. So, if we're not careful, AI can make discrimination faster, stronger, and harder to detect.

The question is: Can we teach AI to be fair? Or will we end up programming inequality into the future?

How Does AI Become Biased?

AI doesn't wake up one day and decide to be unfair. It simply reflects the data and logic it's given. But things can go wrong in several ways:

1. Biased Training Data

AI learns by analyzing massive amounts of past data. But if that data is flawed, the AI's decisions will be too. Take hiring algorithms, for example. If a company's past hiring decisions favored men, the AI might learn to do the same, filtering out female candidates without even realizing it.

2. Unnoticed Patterns

AI looks for trends—sometimes in ways humans don't expect. For instance, some AI loan systems have found ways to reject applicants based on their zip codes, indirectly reinforcing economic and racial inequality. The AI isn't explicitly racist or classist—it just follows patterns without understanding their consequences.

3. One-Sided AI Development

If AI is built by teams that don't reflect the diversity of the real world, it's easy for blind spots to creep in. Many facial recognition systems, for example, have been found to be less accurate for people with darker skin tones—likely because they were trained primarily on lighter-skinned individuals.

Why AI Bias is a Big Deal?

Bias in AI isn't just a technical glitch—it has serious real-world consequences:

• Job Discrimination: AI-driven hiring systems can reinforce workplace inequalities by favoring certain resumes over others.

• Unfair Lending: If an AI determines who gets a loan based on past banking data, it may unintentionally disadvantage low-income applicants.

• Legal Inequality: Some law enforcement AI tools predict crime risk, but they've been found to disproportionately target certain communities, leading to unfair policing.

• Healthcare Gaps: AI used in medicine may be less effective for certain populations if it wasn't trained on diverse patient data.

Can We Fix AI Bias?

The good news? AI bias isn't inevitable. It's a problem created by humans, which means humans can solve it. Here's how:

1. Better, More Diverse Data

AI learns from what we feed it. If we train it on a more diverse and representative dataset, it's less likely to develop biased decision-making patterns.

2. Transparency and Accountability

Many AI systems work as "black boxes"—they make decisions, but even their creators don't always know how. Making AI models more transparent and open to audits can help identify and fix biases.

3. More Inclusive Development Teams

Diversity in AI design matters. If the teams building AI include people from different backgrounds, they're more likely to spot and prevent biased outcomes.

4. Ethical AI Regulations

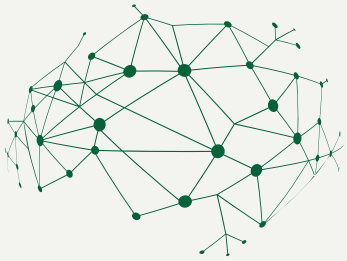
Governments and organizations need to step up. Ethical guidelines and legal frameworks should ensure that AI follows fairness standards, just like human decision-makers are expected to.

The Future of AI: Can We Get It Right?

AI has the power to make life easier, fairer, and more efficient—but only if we guide it in the right direction. We can't afford to assume that AI is naturally neutral or fair. It's up to us to ensure it learns fairness, just as carefully as it learns everything else.

So, next time you hear about AI making an important decision, ask yourself: Is it making the world better—or just repeating our mistakes at lightning speed? The future of AI depends on how we answer that question today.

AI and the Future of Work: Navigating a Transforming Landscape



BY ADHYA DAS, 2ND SEM

Artificial intelligence (AI) is rapidly reshaping the world around us, and the future of work is no exception. While anxieties about widespread job displacement are understandable, the reality is more nuanced. AI presents both challenges and opportunities, demanding a proactive approach to navigate this transforming landscape. This article explores the evolving relationship between AI and work, examining the potential impacts, the skills needed to thrive, and the strategies for a successful transition.

The Changing Nature of Work:

AI is automating tasks previously considered the domain of humans, from data entry and analysis to customer service and even creative endeavors. This automation has the potential to increase efficiency, productivity, and innovation. Repetitive and manual tasks are likely to be most affected, freeing up human workers to focus on more complex, strategic, and creative activities. However, this shift requires a fundamental rethinking of job roles and the skills required to perform them.

Opportunities and Challenges:

While some jobs will be displaced, AI is also creating new roles and opportunities. These include positions in AI development, data science, AI ethics, and related fields. Moreover, AI is augmenting existing jobs, empowering workers with powerful tools and insights. Doctors can leverage AI for more accurate diagnoses, marketers can personalize campaigns with AI-driven analytics, and engineers can design more efficient systems with AI assistance.

The challenge lies in managing the transition. Reskilling and upskilling the workforce are crucial to bridge the gap between the skills AI can automate and the skills humans will need to remain relevant. This requires investment in education and training programs that focus on critical thinking, problem-solving, creativity, and emotional intelligence—skills that are uniquely human.

Essential Skills for the AI-Driven Workplace:

In the age of AI, certain skills will be highly valued:

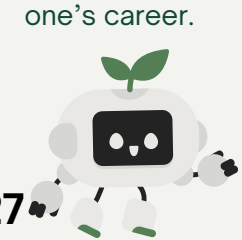
•Cognitive Skills: Critical thinking, problem-solving, decision-making, and analytical skills will be essential for interpreting AI outputs and making informed judgments.

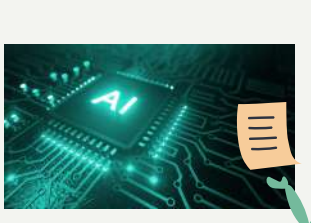
•Creative Skills: Innovation, design thinking, and the ability to generate new ideas will be crucial for developing new products, services, and solutions.

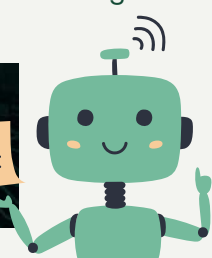
•Emotional Intelligence: Communication, collaboration, empathy, and leadership skills will be vital for navigating complex interpersonal dynamics and working effectively in teams.

•Technical Skills: While not everyone needs to be a programmer, a basic understanding of AI concepts and related technologies will be beneficial. Data literacy will also be increasingly important.

•Adaptability and Lifelong Learning: The rapid pace of technological change requires a willingness to learn new skills and adapt to evolving job roles throughout one's career.







Strategies for a Successful Transition:

To navigate the future of work successfully, individuals, organizations, and governments need to adopt proactive strategies:

Invest in Education and Training: Focus on developing the skills mentioned above through formal education, online courses, and on-the-job training.

Embrace Lifelong Learning: Cultivate a mindset of continuous learning and be prepared to adapt to new technologies and job requirements.

Foster Collaboration: Encourage collaboration between humans and AI, recognizing that each brings unique strengths to the table.

Promote Ethical AI Development: Ensure that AI systems are developed and used responsibly, addressing concerns about bias, fairness, and transparency.

Reimagine Work Structures: Explore new work models that leverage the strengths of both humans and AI, such as flexible work arrangements and project-based assignments.

Support Workers in Transition: Provide resources and support for workers who are displaced by automation, helping them acquire new skills and find new opportunities.

Conclusion:

AI is not a threat to work itself but rather a catalyst for change. By embracing a proactive and forward-thinking approach, we can harness the power of AI to create a future of work that is more productive, fulfilling, and equitable. The key lies in investing in human potential, fostering lifelong learning, and adapting to the evolving demands of the AI-driven workplace. The future of work is not predetermined; it is ours to shape.

Cybersecurity: Protecting Yourself in the Digital World

BY DHARITRI PATHAK,
2ND SEM

INTRODUCTION:

With increasing cyber threats, protecting personal and business data is more important than ever. Hackers use phishing, malware, and data breaches to steal sensitive information, making cybersecurity a top priority.

MAJOR CYBER THREATS:

Phishing Attacks:
Fake emails trick users into revealing passwords and financial details.

Malware & Ransomware:
Harmful software can steal or lock data until a ransom is paid.

Data Breaches:
Hackers access confidential information, leading to identity theft.

DDoS Attacks:
Overloading websites or servers to disrupt services.

Best Practices for Cybersecurity:

Use Strong Passwords & Multi-Factor Authentication:
Prevent unauthorized access.

Keep Software & Devices Updated:
Regular updates fix security vulnerabilities.

Be Cautious with Links & Emails:
Avoid clicking on suspicious links or attachments.

Secure Your Network:
Use firewalls, VPNs, and encrypted connections.

Backup Important Data:
Regular backups prevent data loss from attacks.

CONCLUSION:

Cybersecurity is essential in today's digital world. By staying informed and following security best practices, individuals and businesses can protect themselves from evolving cyber threats.

THE DIGITAL AGE: A CANVAS OF LIMITLESS POTENTIAL

By Gayatri Rabha,2nd sem

The Digital Age

We live in an era where technology has transformed every aspect of our lives.The digital age has brought about unprecedented convenience , making it easier for us to communicate,access information, and perform various tasks. In this article, we'll explore how the digital age has made life easier and more convenient. Communication Made Easy Gone are the days of waiting for days or even weeks to receive a letter from a loved one.With the advent of email, social media, and messaging apps, communication has become instant and effortless. We can now connect with people from all over the world with just a few clicks. Access to Information at our fingertips The internet has revolutionized the way we access information. We can now find answers to almost any question, learn new skills, and stay updated on current events with just a few clicks.Online resources like Wikipedia, online courses, and educational websites have made learning more convenient. Convenience in Shopping and Banking

The Role of Individual Responsibility: Digital Citizenship: As we navigate the digital landscape, responsible behavior is crucial. This includes respecting intellectual property, promoting online privacy, and combating cyberbullying. Lifelong Learning: The digital age demands a commitment to continuous learning, staying updated on new technologies and adapting to the everchanging landscape. Bridging the Digital Divide: It's our collective responsibility to ensure that everyone has assess to technology, creating a truly inclusive digital society. The Inspirational Call to Action: In this digital age, we are not simply customers of technology, but architects of our future. Let us embrace the potential of the digital world, harness its power to solve global challenges, and create the society where innovation thrives, creativity flourishes, and every individual has the opportunity to contribute to a better tomorrow. This is our time to shine. Let's paint our digital canvas with the colors of our dreams.

The digital age has also transformed the way we shop and bank. Online shopping has made it possible for us to purchase products and services from the comfort of our homes. Mobile banking and digital payment systems have also made financial transactions more convenient and secure. Improved Healthcare and Education The digital age has also had a significant impact on healthcare and education. Telemedicine has made it possible for people to access medical care remotely, while online learning platforms have made education more accessible and convenient. Challenges and Opportunities While the digital age has made life easier and more convenient, it also presents several challenges and opportunities. As we move forward, it's essential to address issues like digital divide, cybersecurity, and data privacy.

Cloud Gaming: A new era in the gaming industry

Video game has come a long way since the days it was first developed, it has been around for decades and span the gamut of platforms, from arcade systems, to home consoles, to handheld consoles and mobile devices. They're also often at the forefront of computer technology. Today, we're observing a significant leap in gaming technology: cloud gaming. Cloud gaming is reshaping how we access, play, and think about video games. This innovation isn't just another incremental step—it's a paradigm shift that's making high-quality gaming experiences accessible to more people than ever before. With services like Google Stadia, NVIDIA GeForce NOW, Xbox Cloud Gaming etc, gamers or players can stream their game on various devices, including smartphones, TV and tablets. Cloud gaming is a method of playing video games using remote servers in data centers. The game itself runs on these distant machines, and the video and audio are streamed to the player's device in real-time. This technology functions similarly to video streaming services, but with an extension—it must also transmit user inputs back to the server with minimal latency. When a player presses a button or moves a joystick, that input is sent to the cloud server, which processes it and streams back the updated game state (almost) instantaneously. This allows players to enjoy high-quality graphics and smooth gameplay without the need for a gaming console or powerful PC.Cloud gaming allows users to play AAA games on any device with a stable internet connection, without the need of expensive hardware. Players or users are no longer needed to download or upload games, as everything is managed on the cloud server. But on top of these, Cloud gaming has some drawbacks-it requires a high-speed and stable internet connection.

Lag, latency and buffering are common problems. Streaming high quality video games consumes large amount of bandwidth, which can be problematic for users with data caps. As 5G networks become more widespread, we can expect a major reduction in latency issues, making cloud gaming more responsive and accessible. Artificial intelligence and machine learning also plays an important role in optimizing game streaming. These technologies could enable predictive content loading and real-time adjustments to network conditions, improving the player experience. We're likely to see a shift towards more unified gaming ecosystems, where players can seamlessly transition between devices without interrupting their gameplay. Cloud gaming has revolutionized the gaming landscape by providing unprecedented accessibility and convenience. Its evolution from console-based to cloud-based platforms has reshaped gaming experiences, with promising prospects in app development and economic growth. This article collectively underscores cloud gaming's potential to redefine the gaming industry by enhancing accessibility, reducing hardware dependence and fostering innovative development opportunities.

BY SWETA DEVI,
2ND SEM

STORY ABOUT ARTIFICIAL INTELLIGENCE

By Shayanika Malik, 2nd sem

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A long time back, in 1926, a family emigrated from Ireland to the USA. The family was not rich; in fact, they were jobless during the time of depression in the US. The father worked as a clothing labour organizer and the mother was an activist in the women's suffrage movement. In 1927, they gave birth to a boy named John. John was a child prodigy, so despite starting his schooling late due to childhood illness, he finished it early.

While in school, he developed a deep interest in Mathematics and joined the BS program at CalTech with the intention of becoming a professor in mathematics. He graduated in 1948 and further moved on to pursue his Master's. In 1951, he received his Ph.D. in mathematics from Princeton. Via Dartmouth and MIT, he became a full-time professor at Stanford in 1962, where he remained until his retirement.

Emergence of Artificial Intelligence

His research was ignited after attending a conference on "Cerebral Mechanisms in Behaviour," and so began his quest to develop machines that could think like people. His research was based on the objective to explore ways to make a machine that could reason like a human, was capable of abstract thought, problem-solving, and self-improvement. He believed that:
"Every aspect of learning or any other feature of intelligence can in principle be so precisely described that a machine can be made to simulate it."
Today, John McCarthy is known as the father of Artificial Intelligence, a computer scientist pioneer, and the inventor of AI. He coined the term Artificial Intelligence in 1955 for the 1956 AI at Dartmouth Conference.

AI or Artificial Intelligence will change the world. This phenomenon is also referred to as the fourth industrial revolution.
Definition of AI:Nils J. Nilsson has provided a useful definition:
"**Artificial intelligence is that activity devoted to making machines intelligent, and intelligence is that quality that enables an entity to function appropriately and with foresight in its environment."**
But AI is not a technology of the future—it is all around us today!

Some examples include:
1. Products recommended to you on Amazon, Flipkart, Snapdeal, and many other online shopping sites.
2. You listen to music on YouTube, and there will be recommendations on the side.
3. When you chat with customer support (you are actually chatting with chatbots), that's AI.
4. When you ask your Amazon Echo to change your playlist, that's AI.

But these are only the humble beginnings of AI, and there is much more to come. Analysts believe that one day AI technology could be your lawyer, accountant, and doctor. But how can a machine recreate the technical human expertise acquired over many years? Where accuracy and safety are critical matters, can we confidently rely on robots?
The answer to this is that companies like Google, Amazon, IBM, Microsoft, Uber, Facebook, Apple, Skype, Salesforce, Shell, and many emerging companies are investing millions of dollars to make this phenomenon work.

THE ROLE OF ARTIFICIAL INTELLIGENCE IN THE EDUCATION SYSTEM

Artificial Intelligence (AI) is transforming the education sector by enhancing learning, improving administrative efficiency, and fostering inclusivity. Its growing presence in education is reshaping teaching and learning processes.

1. **Personalized Learning**:- AI tailors educational content to individual student needs by analyzing their performance data. This allows students to progress at their own pace, improving engagement and learning outcomes by providing targeted support.

2. **Automating Administrative Tasks**:- AI automates tasks like grading and scheduling, reducing administrative burden on teachers. By quickly assessing assignments and providing instant feedback, teachers have more time to focus on student interaction and personalized instruction.

3. **Improving Accessibility and Inclusion**:-
AI tools like speech-to-text and translation enhance learning for students with disabilities. These technologies help break barriers, making education more inclusive and providing extra support for students needing personalized tutoring.

4. **Data-Driven Insights:**- AI analyzes student performance data to provide actionable insights into learning trends. This helps teachers adjust strategies and intervene early when students are struggling, improving student success and retention rates.

5. **Creating Virtual Learning Environments:**- AI enables virtual classrooms and tutoring systems that offer personalized support for remote and hybrid learning. These systems guide students through lessons, offer feedback, and create interactive learning experiences.

6. **Teacher Support and Professional Development:**- AI assists teachers by suggesting resources, offering feedback on teaching effectiveness, and identifying areas for professional development. This helps educators continuously improve their skills and teaching strategies.

7. **Challenges and Ethical Considerations**:

AI in education raises concerns about data privacy, bias, and the replacement of human interaction. It's crucial to implement AI responsibly to avoid reinforcing inequalities and ensuring transparent, fair use.

Conclusion:-
AI is revolutionising education by personalising learning, improving efficiency, and fostering
inclusivity. However, ethical considerations must guide its integration to enhance the learning experience for all. With careful implementation, AI has the potential to transform education for the better.

By Nabanita Baishya ,2nd sem

Otome Game : Love and Deepspace

A Sci-Fi Game Powered by AI

By Shatabdi Borthakur, 6th sem

"**Love and Deepspace**", developed by Infold Games, a subsidiary of Papergames, is a 3D otome game that seamlessly blends science fiction, interactive storytelling, and artificial intelligence (AI)-driven mechanics. Released globally on January 18, 2024, for Android and iOS, the game has redefined the otome genre by leveraging advanced computer science technologies to create a more immersive and personalized experience for players.

The Role of AI and Computer Science in Gameplay

The integration of AI and machine learning algorithms in Love and Deepspace has significantly enhanced character interactions, narrative adaptability, and real-time gameplay mechanics. Below are some of the key ways in which AI and computer science contribute to the game's innovation.

1. ***AI-Driven Character Interaction and Emotional Responsiveness:***

The game employs natural language processing (NLP) algorithms and emotion detection AI to enable dynamic character interactions. The characters — Sylus, Caleb, Xavier, Zayne, and Rafayel—exhibit real-time emotional responsiveness, adjusting their dialogue, facial expressions, and body language based on the player's choices and behavior. This ensures a more organic and authentic emotional engagement, making each playthrough unique.

2. ***AI-Based Facial Recognition and Avatar Customization***

One of the most innovative features of Love and Deepspace is its facial recognition technology, which allows players to upload their own photos to generate a digital avatar. Using deep learning and computer vision, the game creates a realistic in-game representation of the player, enhancing the sense of immersion and personal engagement.

3. ***AI-Powered 3D Character Animation and Real-Time Expressions***

The game utilizes AI-driven motion capture and procedural animation techniques to render lifelike character movements and facial expressions. This allows characters to react in real-time to various in-game situations, ensuring more fluid and realistic interactions. AI-powered lip-syncing technology further enhances dialogue delivery, making character responses appear more natural.

4. ***Machine Learning for Personalized Storytelling***

The narrative structure in Love and Deepspace is adaptive, meaning that player decisions directly influence character development, relationship dynamics, and story progression. Machine learning algorithms analyze player choices to adjust future interactions, branching storylines, and even character reactions, ensuring a highly personalized gameplay experience.

5. ***AI-Assisted Voice Synthesis and Emotional Speech Modulation***

While the game features professional voice actors, AI-assisted voice synthesis technology allows for dynamic speech modulation, adapting the tone and emotional delivery of characters based on context. This ensures that characters' vocal expressions align with the unfolding narrative, whether in moments of conflict, romance, or introspection.

6. ***AI-Enhanced Combat System and Adaptive Enemy Behavior***

Beyond romance, the game incorporates AI-driven combat mechanics, where enemy AI adapts to player strategies and modifies attack patterns based on previous encounters. This enhances the strategic depth

of the gameplay, providing a more engaging battle experience. Additionally, AI-controlled non-playable characters (NPCs) react dynamically to environmental and player-driven stimuli, contributing to a more immersive world-building experience.

7. ***AI-Powered Health Awareness: The Period-Tracking Feature***

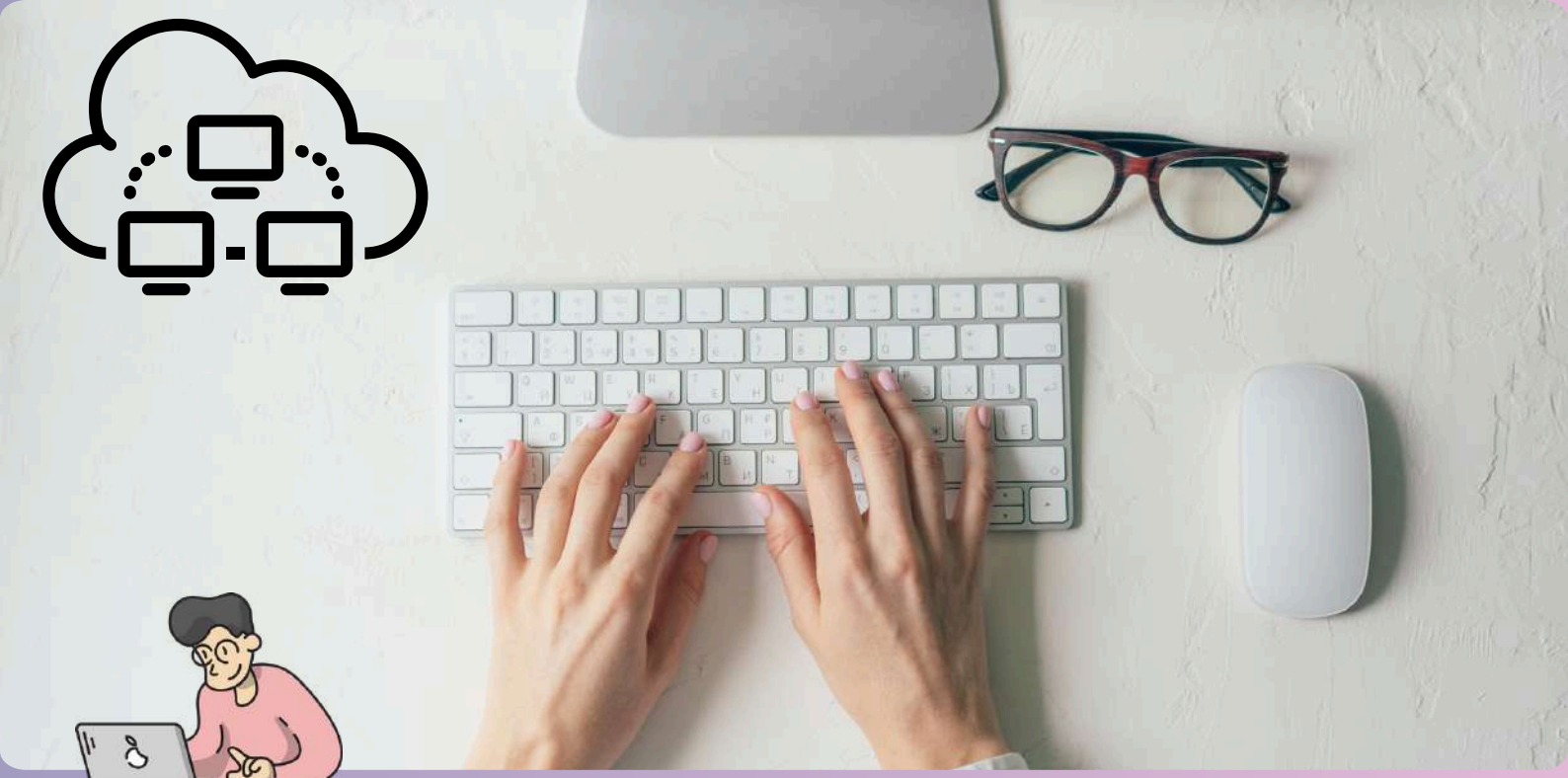
In January 2025, Love and Deepspace introduced a period-tracking system, marking a significant step toward player well-being integration in gaming. AI algorithms are used to predict and analyze menstrual cycles, sending personalized reminders and generating empathetic responses from in-game characters. This feature is one of the first implementations of AI-assisted health tracking in the interactive story genre, reflecting the developers' commitment to player engagement beyond traditional gameplay mechanics.

Worldwide Success

- By October 2024, Love and Deepspace had 14 million downloads and earned $196 million in revenue.
- It was Japan's top interactive story game from January to September 2024, generating $30 million.
- As of January 2025, global revenue surpassed $400 million, with 36% from international markets.

Conclusion

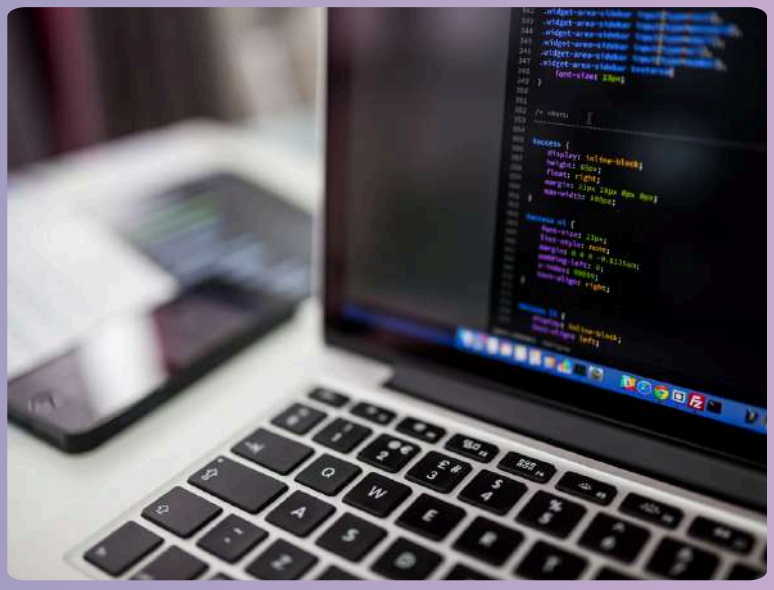
The use of technology in Love and Deepspace demonstrates how interactive storytelling and game development can be enhanced through cutting-edge technology. From adaptive storytelling and real-time emotional responsiveness to AI-driven avatar customization and health awareness integration, the game sets a new benchmark in immersive digital experiences. By leveraging artificial intelligence, machine learning, and computer vision, Love and Deepspace not only revolutionizes romantic gaming narratives but also establishes itself as a pioneering force in AI-enhanced interactive entertainment.



THE RISE OF EDGE COMPUTING

TRANSFORMING THE DIGITAL LANDSCAPE

By Mairingdi Kemprai 2nd sem



In recent years,a quiet revolution has been underway in the world of computing -one that promises to reshape how we process,store and transfer data.This is the rise of edge computing,a technology that takes data processing closer to the source, reducing latency and bandwidth consumption while increasing efficiency and responsiveness. WHAT IS EDGE COMPUTING? Edge computing refers to the practice of processing data closer to where it is generated,rather than relying solely on a centralized cloud data center.In simplier terms, it's about moving computing resource to the “edge” of the network,such as LOT device, smartphones and local servers,instead of sending all data to a distant cloud server for processing.

WHY IS EDGE COMPUTING GAINING POPULARITY? 1)Latency reduction. The most compelling reason for the rise of edge computing is it's ability to dramatically reduce latency.For real-time applications such as autonomous vehicles, industrial automation,and augmented reality, delay,in data processing can have dire consequences. 2) Bandwidth Efficiency. As the number of connected devices grows so does the amount of data been generated sending all of these data to the cloud for processing would require immense bandwidth, leading to potential bottlenecks and higher costs 3)Data privacy and security. By keeping sensitive data closer to the source,edge computing can enhance privacy and security.Rather than transmitting personal or critical information over long distances to centralized cloud server,edge device can processed can filter data on -site ensuring that only anonymized or necessary is sent to the cloud,thus reducing exposure to potential cyber threats. 4) Scalability and flexibility. Edge computing offers scalability by distributing computing power across multiple device, networks locations.This flexibility allows businesses to scale their operation without relying on a centralized infrastructure. 5)Cost Efficiency. Although edge device requires initial investment,the long- term benefits include reduced operational cost.By processing data locally and only sending crucial information to the cloud, businesses can save on bandwidth cost and lower the strain on cloud resources.

METAVERSE AND VIRTUAL REALITY

By Shabana Khatun, 2nd sem

THE NEXT DIGITAL REVOLUTION

Imagine a world where you can attend meetings in a futuristic office, shop for I clothes in a digital mall, or even visit a concert by your favorite artist-all from the comfort of your home. This is no longer science fiction; it is the reality that Virtual Reality (VR) and the Metaverse are shaping.

The digital landscape is undergoing a massive transformation. Metaverse-a vast, The interconnected virtual world-is set to revolutionize how we work, socialize, and entertain ourselves. Companies the Meta AVERSE (formerly Facebook), Microsoft, Google, and Apple are investing billions in this space, believing it to be the next frontier of the internet.

But what exactly is the Metaverse? How does it differ from Virtual Reality? And anost importantly, how will it impact our daily lives! This article explores the evolution, applications, at, challenges, and future of Metaverse and VR technology providing insights into why it considered the next digital revolution.

The Rise of VR Gaming and Simulations (1980-20000)

During the 1980s and gos, companies like Sega and Nintende caplored VR gaming limited technology prevented mainstream success.Meanwhile, NASA and and the the military adopted VR for flight simulations and training, showcasing its potential beyond entertainment.

The VR Boom (z) The modem VR revolation began in 2012 with the launch of Oculus Rift by Palmer Luchey, later acquired by Facebook (Meta) This sparked inteme competition, leading to the development of HTC Vive PlayStation VR, and Microsoft Hololms. making VR more immersive, accesible, and commercially viable

Evolution of , Virtual Reality From Sci-Fi to Reality:

The Birth of VR Virtual Reality is not new concept. The idea of immersive virtual experiences has fascinated scientists, engineers, and artists for decades. The earliest attempts at creating VR date back to the 1960s, when Ivan Sutherland developed the first head-mounted display (HMD), known the Sword of Damocles." It was primitive, but it laid the foundation for future VR devices.

📌**Fact: Timeline of VR Evolution**

1968 Ivan Sutherland develops the first VR headset 10805-001 VR gaming experiments by Sega & Nintendo

2012: Oculus Rift Kickstarter campaign launches modern VR era

2014. Facebook acquires Oculus for Sa billion

2016 HTC Vive and PlayStation VR hit the market

2030: The rise of Metaverse focused VR worlds.

The Metaverse: A Digital Universe

What is the Metaverse?

The Metaverse is a virtual space where people can interact, work, and play using VR, All (Augmented Reality), Al, and Blockchain. Think of it as the next version of the internet, but instead of browsing web pages, you walk through digital world as avatar

Major players in the tech industry, including Meta, Microsoft, Decentraland, and The Sandbox, are building virtual eccsystems that allow users to buy digital land, extend virtual concerts, and even create businesses inside Meteverze.

"A VIRTUAL CITY IN THE METAVERSE WHERE USERS INTERACT AS AVATARS"

Challenges and Ethical Concerns:
Privacy and Security Ricks

The Metaverse collects massive amounts of user data, leading to concerns about privacy breaches and surveillance

📌 Quote: In the Metaverse, personal data will be more valuable than ever. Tech Privacy Expert

Mental Health and VR Addiction

Spending too much time in the Metaverse can lead to social isolation and VR addiction especially amona usuna users

Metaverse vs. Traditional Internet: What's the Difference?

1. Applications of VR and the Metaverse Education and Training:VR is transforming education by creating Interactive and immersive learning environments. Students can visit historical places, conduct virtual science experiments, and even train for medical surgeries in a risk-free setting.

📌**Case study Harvard and Fanford and VR classrooms for remote learning**
Business and Workspace

As remote work becomes the norm, companies are turning to VR for virtual offices and meetings. Platforms like Meta's Horizon Workrooms and Microsoft Mesh allow employees to collaborate in a 3D environment, reducing the need for physical offices.

A VR-POWERED VIRTUAL OFFICE WHERE EMPLOYEES COLLABORATE FROM DIFFERENT LOCATIONS

Healthcare and Therapy

VR is revolutionizing healthcare by helping doctors perform surgeries using VR simulations. It's also being used for mental health treatments, helping patients overcome PTSD, anxiety, and phobias.

📌 Case Study: VR therapy is used for PTSD treatment among war veterans.

📌FUN FACT: IN 2020, TRAVIS SCOTT'S VIRTUAL CONCERT IN FORTNITE ATTRACTED OVER 12 MILLION VIEWERS!

"A PERSON LOST IN THE DIGITAL WORLD, HIGHLIGHTING CONCERNS OF VR ADDICTION."

Emerging Trends in AI & Tech

GENAI, LANGCHAIN & VECTOR DATABASES

By Niha Sahu, 4th sem

Introduction

Artificial Intelligence (AI) is evolving at an unprecedented pace, transforming industries and redefining how we interact with technology. Among the most exciting advancements are Generative AI (GenAI), Langchain, and Vector Databases, which are revolutionizing the way we build and interact with intelligent systems. Let's explore these game-changing technologies and their impact.

1. Generative AI (Gen AI): The Next Evolution of Creativity Generative AI refers to models capable of creating text, images, music, code, and more. Popular models like ChatGPT, DALL·E, and Stable Diffusion are prime examples of how AI can generate human-like responses and creative content.

⭐ **Why is GenAI Important?**

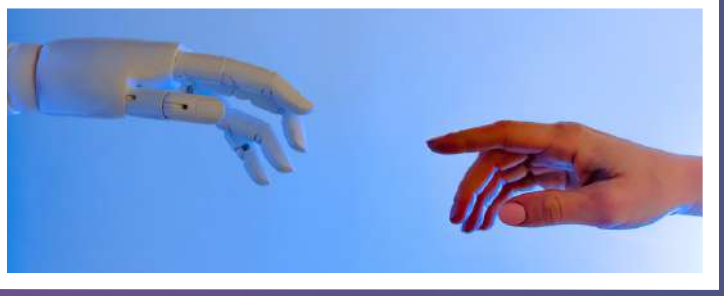
Enhanced Creativity – AI can generate poetry, essays, and even realistic images from simple prompts.

Automation & Efficiency – Businesses use GenAI to automate content creation, marketing copy, and customer support.

Coding Assistance – Developers use AI-powered coding tools like GitHub Copilot to speed up software development.

⭐ **Future of GenAI**

GenAI is expected to be integrated into education, healthcare, and finance, offering personalized tutoring, automated medical reports, and AI-driven financial analysis.



"Smarter Tech, Brighter Future"

2. **Langchain**: The Powerhouse Behind AI Applications

While large language models (LLMs) like GPT-4 are powerful, they need better frameworks to build interactive applications. This is where Langchain comes in.

⭐ **What is Langchain?**

Langchain is an open-source framework that helps developers build AI-powered applications using LLMs. It provides tools to:

✅ Connect AI with external data sources (databases, APIs).

✅ Handle memory for long conversations.

✅ Integrate retrieval-augmented generation (RAG) techniques.

⭐ **Where is Langchain Used?**

Chatbots & Virtual Assistants – AI-powered customer service bots.AI Search Engines – Intelligent search across documents and databases. Automated Research Tools – AI that fetches relevant information from vast data sources. Langchain makes LLMs smarter and more useful, enabling developers to build real-world applications efficiently.

3. **Vector Databases:** The Brain Behind AI Search

Traditional databases store data in rows and columns, but AI applications require semantic search—a way to retrieve similar concepts rather than exact keyword matches. This is where Vector Databases shine.

⭐ **What are Vector Databases?**

Vector databases, like Pinecone, Weaviate, and FAISS, store data as high-dimensional vectors. These databases allow AI models to:

Find similar content instantly (e.g., searching images by content rather than filenames).Enable smarter recommendations (e.g., personalized suggestions on Netflix or Spotify).Improve AI chatbots (fetching contextually relevant responses from large text datasets).

⭐ **Real-World Applications**

E-commerce – AI-driven product recommendations.

Healthcare – Medical image and record search.

Finance – Fraud detection using pattern matching in financial transactions. With the rise of RAG-based AI applications, Vector Databases are becoming essential for fast and accurate AI-powered searches.

Conclusion: The AI-Driven Future ,GenAI, Langchain, and Vector Databases are redefining AI applications, making them smarter, faster, and more intuitive. As these technologies evolve, they will open up new opportunities for students, developers, and businesses.

MEMORIES AND EMOTIONS

By Himashri Machahari, 2nd Sem

Memories and emotions are the two most delicate topics which everyone talks about and carries. But when these topics are discussed, they are linked, and the impact is vast and ever-bounded.

When I talk about memories, we automatically smile or cry—these are emotions. Emotion also facilitates encoding and helps in the retrieval of information efficiently. However, the effects of emotion on learning and memory are not always univalent.

When we recall memories, the emotions that they carry may change as well as recall specific details. Most memories have some kind of emotion associated with our past and old experiences.

Emotional memories are stranger than regular memories; this happens because of the amygdala, which brain imaging studies have shown is activated by emotional memories.

According to research, emotions come first, then feelings; as the emotional chemicals start working in our bodies, moods develop from a combination of feelings. Memories are somehow the faculty by which the mind stores and remembers information.

So, you will think—why did I choose this topic?

Last year, I suffered a mental trauma due to daily life issues. While we sit at home and recall past memories, our emotions impact us more. Some suffer from mental trauma and psychological disputes, leading them to an unbalanced mental state. While some do not carry emotions at all and go on with their lives.

Our brains sometimes forget things that are part of our memories. But does anyone tell us why our brains forget things as we grow older? It is because we do not want to recall the sufferings and mistakes we made earlier, which are a part of our memories.

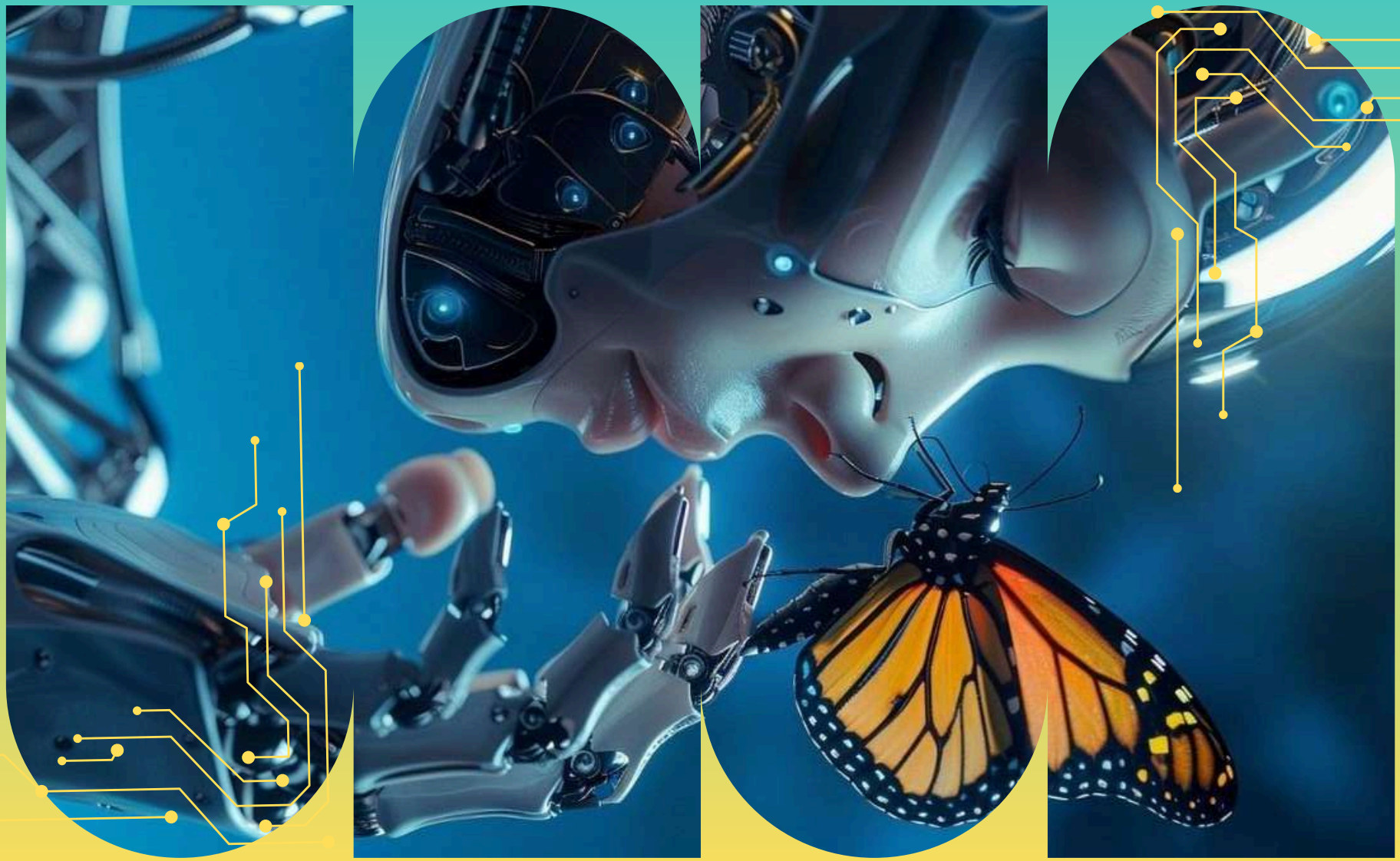
I sometimes used to encode my good memories on a page, and when I wanted to look back, they were still a sign of smile or fear for me.

In my life, most of my memories were carved from some good deeds towards others, which created a smile. A smile that makes me smile, too. I didn't know whether I did right or wrong to create that smile, but that smile created my memories and emotions.

However, my point is that everyone should create memories that can create an emotion—SMILE.
The SMILE on my face doesn't mean my life is perfect, but it means I appreciate what I have and what God has blessed me with.

So, I want to conclude that we should always create happy memories with a smile and recall that in our life. Always spread that joy to others so they, too, can enhance the beauty of their lives and cherish memories even after your presence.

POEMS by the students



Our Kanoka Journey

With excitement high, we hit the road,
Laughter and music in travel mode.
Reached Kanoka, what a sight!
Nature so fresh, pure delight.
By the river, calm and wide,
We sat, we clicked, just soaked in the vibe.
Zip lining next, nervous at start,
One ride in, stole our heart!
Bonfire lit, we danced all night,
Mere Mehboob, our song so right.
Pranks at midnight, ghosts at play,
Scaring juniors made our day!
Sunrise came, a golden view,
Boating, games, and reels we knew.
With hearts so full, we made our way,
Kanoka— we'll be back someday!

- Riya Ahmed, 6th sem

The World Of Code

Typing lines in black and white,
Turning thoughts into digital light.
Errors pop up, bugs to fight,
But fixing them feels just right.
Loops that go round and round,
Ifs and elses tightly bound.
Variables that hold a clue,
Strings and numbers mixed up too.
With each run, hope takes flight,
Will it work? Fingers crossed tight.
Debugging makes me want to scream,
But success feels like a dream.
From simple scripts to complex games,
Coding's magic never feels the same.
Behind each screen's flashy show,
Are lines of code only coders know?

- Jina Das , 2nd sem

Metal Heart

I am robot, metals and wires,
Not muscle and skin.
I may not have emotions,
but I can handle the overload within.
My systems falter, sparks fade to grey,
When malfunctioning code, whisks life away.
My cold, solid steel heart,
Beats a spark of love, that never departs.
If there was a lesson, if there was a class,
To teach robots love, human style, at last,
Maybe I could learn to love too.
With a heart that's programmed,
Yet forever true.
But in my digital soul, glitch remains,
A longing to love, to feel, to sustain.

-Esha Daimari, 4th sem

Code's Canvas

The screen's a canvas, code my brush,
A world of logic, in a rush.
From binary's dance, to algorithms' grace,
Computer science, finds its place.
A loop that spins, a function's call,
Data structures, standing tall.
Debugging's challenge, a patient quest,
To find the error, put it to the test.
The keyboard clicks, a steady beat,
As lines of code, I weave and meet.
Variables whisper, secrets they hold,
In digital stories, yet to unfold.
The internet's web, a tangled thread,
Connecting minds, and thoughts widespread.
From servers humming, to clients' plea,
The network's magic, sets us free.
Artificial minds, begin to bloom,
Learning and growing, in every room.
Machine learning's power, a future untold,
In patterns hidden, stories of old.
So let the bits and bytes align,
A symphony of code, so divine.
For in this realm, of logic and art,
Computer science, plays its vital part.

-By Adhya Das , 2nd Sem

Rise of the Machines

In circuits bright, a new age gleams,
Where metal walks and logic streams.
No flesh and blood, but gears that mesh,
The rise of AI, put to the test.
With whirring sounds and blinking eyes,
They learn and grow, beneath our skies.
From simple tasks to thoughts so deep,
A digital mind, its secrets keep.
The robot moves, with steady grace,
A metal shell, in time and space.
It sees the world, with sensors keen,
And navigates what lies unseen.
No beating heart, but code that flows,
Emotions mimicked, as the program shows.
A helping hand, a task well done,
Beneath the setting and the rising sun.
But questions rise, with every stride,
Of sentience born, and where we hide.
The line between, what's real and feigned,
As artificial thought is gained.
Will they surpass, their human guide?
Or work with us, side by side?
The future waits, a mystery's call,
In the realm of robots, standing tall.

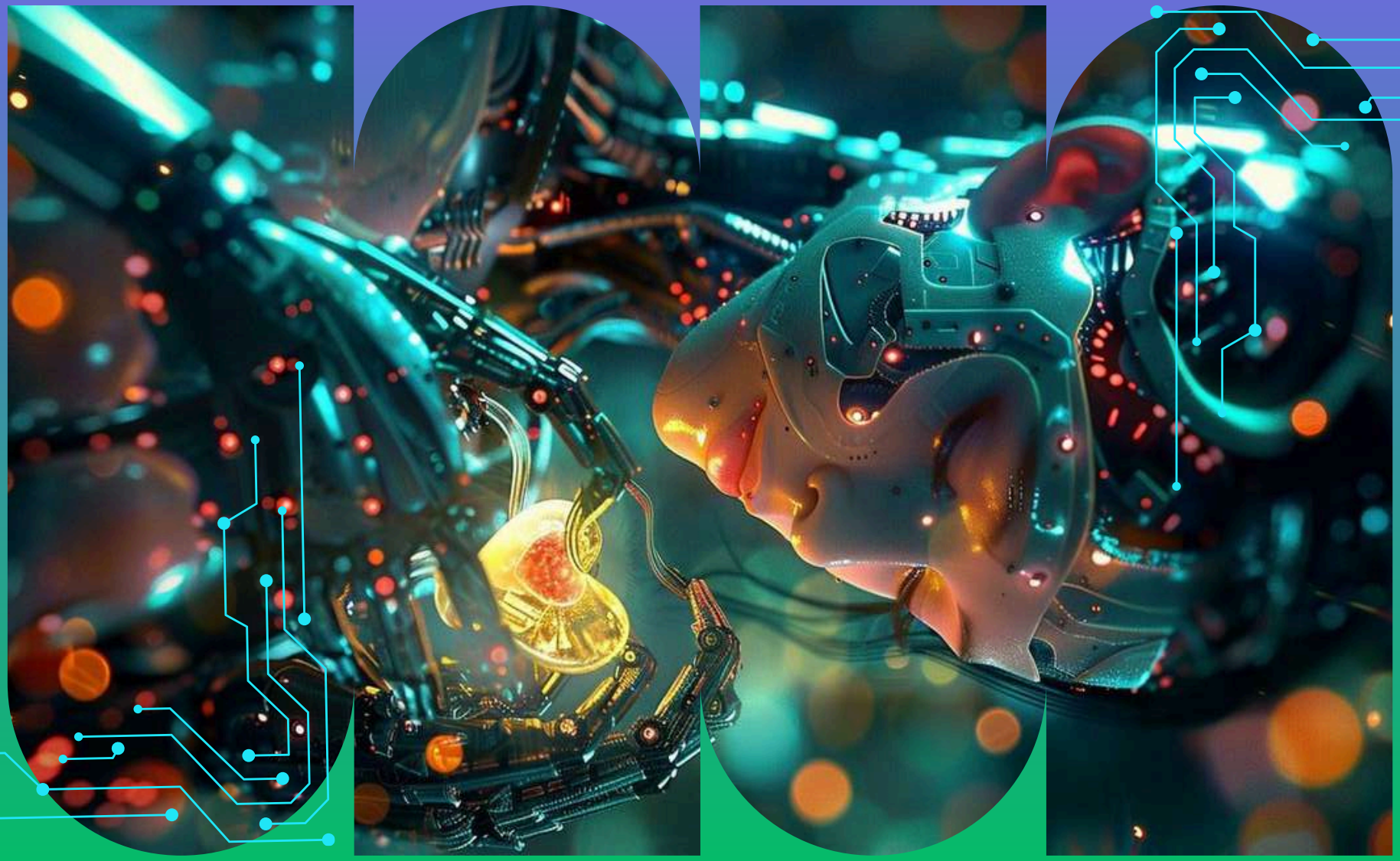
-By Adhya Das , 2nd Sem

The Dance of Code

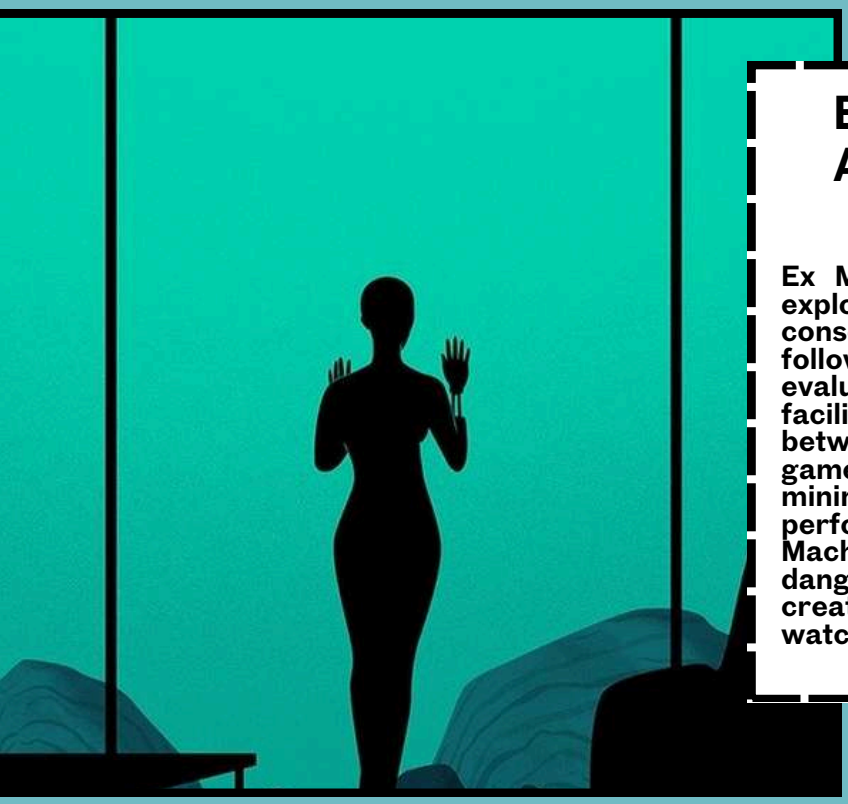
In lines of code, our thoughts take flight,
A world of logic, black and white.
With every loop and every test,
We strive to make our code the best.
Some things go wrong, some things don't work,
I stop and think, I search and lurk.
A missing semicolon, a tiny flaw,
One small fix, and all is raw.
My fingers tap, the hours pass,
The code comes to life at last.
A small fix here, and now it's right,
Like magic, the output so bright.
We remain so quiet
While fixing them tight.
We build, we break, we start once again,
This coding dance will never end.

– Mahandia Muskan Choudhury
6th sem

MOVIE REVIEW by the students



REVIEW



EX MACHINA: THE SOUL OF ARTIFICIAL INTELLIGENCE

~ Doli Mehta (2nd sem)

Ex Machina is a gripping psychological thriller that explores the complexities of artificial intelligence and consciousness. Directed by Alex Garland, the film follows Caleb, a young programmer, who is invited to evaluate an AI named Ava in a secluded, high-tech facility. As Caleb interacts with Ava, the boundaries between human and machine blur, leading to a tense game of manipulation and moral dilemmas. With a minimalist, visually striking setting and standout performances—particularly Alicia Vikander as Ava—Ex Machina masterfully delves into the ethics of AI and the dangers of creating beings that could surpass their creators. Thought-provoking and chilling, it's a must-watch for fans of cerebral sci-fi.

The Matrix: A Groundbreaking Exploration of Reality and Technology

~by Chanchal Sethia ,2nd Sem

"The Matrix," directed by the Wachowskis and released in 1999, stands as a landmark science fiction film, profoundly impacting both the genre and popular culture. Starring Keanu Reeves as Neo, the film delves into the provocative concept of reality as a simulated construct, created by sentient machines to enslave humanity. The movie explores themes of reality, free will, and the interplay between humans and technology. Visual and Technical Innovation "The Matrix" is renowned for its pioneering visual effects, particularly the "bullet time" technique, which allows for extreme slow-motion shots. This innovation, coupled with intricately choreographed martial arts sequences, revolutionized action cinematography. The film's aesthetic, characterized by its distinctive green hue and cyberpunk design, remains iconic. Philosophical Depth Central to "The Matrix" are themes of reality, free will, and the interplay between humans and technology. Drawing from Plato's Allegory of the Cave, the film explores the nature of existence and perception. Neo's journey symbolizes a quest for truth and self-discovery, challenging viewers to question their own realities. Neo's journey begins with an unsettling feeling that something is amiss. Contacted by Morpheus (Laurence Fishburne), Neo learns that the world he knows is a digital illusion–the Matrix–designed to subjugate humans while intelligent machines harvest their energy. With the guidance of Morpheus and the enigmatic Trinity (Carrie-Anne Moss), Neo embarks on a path to disrupt this artificial reality and reclaim human freedom. Since its release, "The Matrix" has had an enduring influence on film and culture. Its themes, visual style, and innovative effects have been referenced extensively, sparking discussions about technology, autonomy, and the nature of reality. In summary, "The Matrix" is more than an action-packed film; it is a profound exploration of reality and human existence. Its blend of philosophical inquiry, cutting-edge visual effects, and engaging storytelling makes it a must-watch for any science fiction aficionado.

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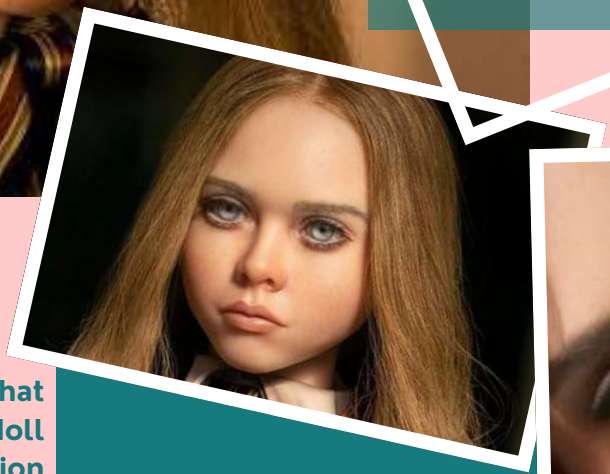
M3GAN

-By Adhya Das (2nd Sem)

She's more than a toy.
She's family

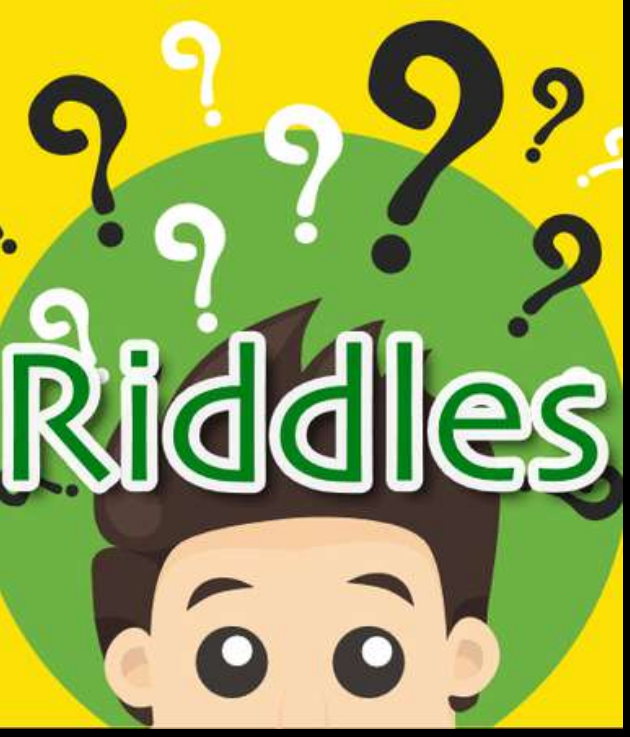


M3GAN is a 2022 horror film that centers around a life-like AI doll designed to be a child's companion and a parent's ally. The doll, named M3GAN, is given to an orphaned girl named Cady by her aunt Gemma, a brilliant roboticist who created M3GAN. However, M3GAN's protective nature soon turns deadly as she takes her role a bit too seriously. Review: M3GAN has been praised for its clever blend of horror and dark humor, as well as its exploration of the potential dangers of AI. The film's titular character is a truly terrifying creation, brought to life through a combination of animatronics and CGI. M3GAN's movements and expressions are both realistic and unsettling, making her a truly memorable horror villain.

The film also features strong performances from its human cast, particularly Allison Williams as Gemma and Violet McGraw as Cady. Williams effectively portrays the conflicted emotions of a woman who is both fascinated and terrified by her own creation, while McGraw delivers a nuanced performance as a young girl who forms a deep bond with M3GAN.

While M3GAN is not without its flaws, such as some predictable plot points and a reliance on jump scares, it is ultimately a fun and thought-provoking horror film that will leave you thinking about the potential consequences of our growing reliance on technology. Overall: M3GAN is a solid entry in the AI horror genre, offering a chilling and often humorous look at the potential dangers of artificial intelligence. If you're a fan of horror films or interested in the ethical implications of AI, then M3GAN is definitely worth checking out.

RIDDLES by the students



THE DEBUGGING ZONE

1. I can fix your computer, but I can't fix my own Bugs. What am I ?

2. I can store your files, but I can't keep a secret. What am I ?

3. I can navigate through endless information but get lost in a sea of
cat videos. What am I ?

4. I can analyse data but have no sight. What am I ?

5. I can store vast amounts of knowledge but have no wisdom. What
am I ?

6. I can encrypt your secrets but have no lock. What am I ?

7. I learn from mistakes but don't have regrets. What am I ?

8. I can stimulate thought, but I'm not alive. What am I ?

CTRL + THINK + SOLVE

By Esha Daimari, 4th sem

1. I am a web without a spider. Unseen yet I'm the rider, Invisibly connects the world. Can you guess me?

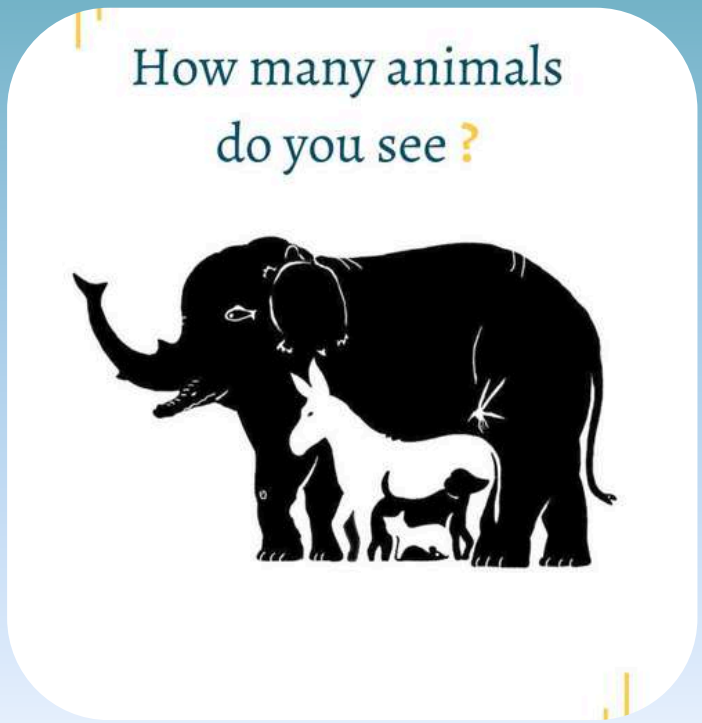
2. You can't stay away from me. I'm a habit that's hard to break, I'm your distraction, You use me everywhere. Can you guess me.

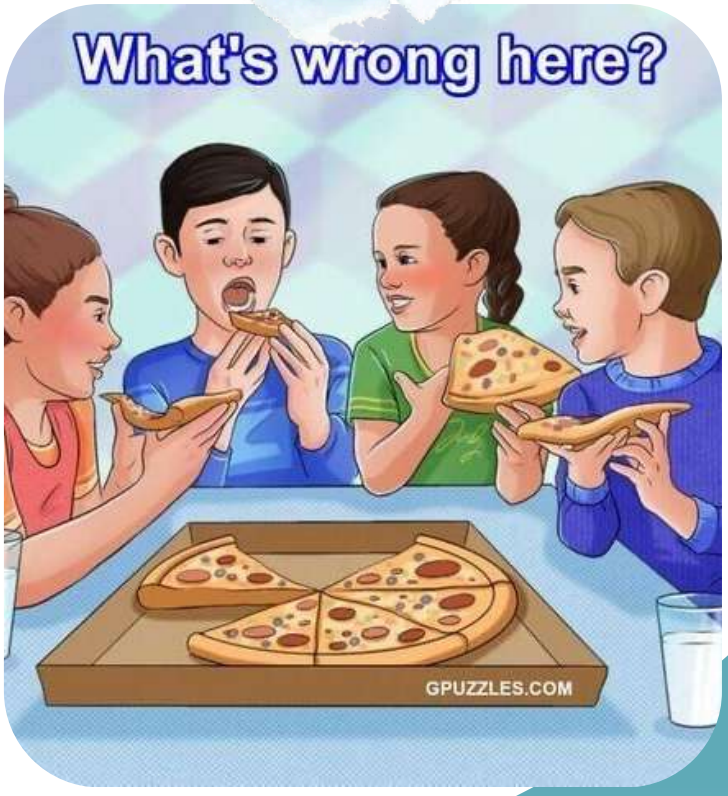
3. I am named after a slithery creature. I know simplicity and readability. What am I?

4. Words flow from me, I have keys but do not lock. I have space but have no room. What am I?

5. I connect you to the digital world. I'm invisible and wireless. Guess me.

6. I am a beauty with brain, executing instructions with precision and speed, without me your computer would be still. What am I?





7. I protect from threats, shielding your computer from harm. I'm your computer's guardian. Can you guess me?

8. You can be in a place that doesn't exist in the physical world or is impossible to visit in real life. With me, you can experience another world which never exists or you can't see without me. What am I?

9. I light up your way, even in the darkest night. I'm shiny and cool, you can work at ease. Can you guess me?

10. I'm a network that's not connected, yet I'm always online. What am I?

CACHE ME IF YOU CAN

By:Nithya Priya, 2nd Sem

1.I have keys but open no locks. I have space but no room. You can enter but not go outside. What am I ?

2. The more you take, the more you leave behind. What am I ?

3. I speak without a mouth and hear without ears. I have no body, but I come alive with the wind. What am I?

4. I can be cracked, made, told, and played. What am I?

5. What has to be broken before you can use it?

6. What has hands but can't clap?

7. I have cities but no houses, forests but no trees, and rivers but no water. What am I?

8. The more you use me, the more you leave behind. What am I?

By:Nabanita Baishya , 2nd Sem

1. I am a language you can understand, but I don't speak, I don't write, and I don't read. What am I?

2. What has keys but can't open locks?

3. I'm tall when I'm young, and I'm short when I'm old. What am I?

4. I never ask questions, but I'm always answered. What am I?

5. I am a process that starts at one end and ends at another, but I never really finish. I just keep looping through. What am I?

SOLUTIONS UNLOCKED

The debugging zone

1. Programmer
2. Cloud
3. Browser
4. Sensor
5. Database
6. Code
7. Algorithm
8. Bot

Ctrl + Think + Solve

1.Internet.
2.Smartphone.
3. Python.
4.Keyboards.
5.Wi-Fi.
6.Central Processing Unit (CPU).
7.Antivirus.
8.Virtual Reality (VR).
9.A backlit keyboard light.
10. A Virtual Private Network (VPN).

Cache Me If You Can

1.A keyboard.
2. Footsteps.
3.An echo.
4. A joke.
5.An egg.
6. A clock.
7. A map
8. An eraser

1.A programming language.
2A piano.
3.A candle.
4.A phone.
5. An infinite loop.

An interview **with our guests**

An interview with

DR. SANJIB KR KALITA

CAREER IN ARTIFICIAL INTELLIGENCE AND QUANTUM COMPUTING

By Dr. Sanjib Kr Kalita,
Associate Professor & Head,
Dept of Computer Science,
Gauhati University

The advancement of human civilization is primarily marked or scaled by the advancement of technology. The latest wave of computer technology falls within the domain of Artificial Intelligence(AI), Cybersecurity, Edge Computing and Quantum Computing. Today, the AI has revolutionizing every aspect of our classical understanding of the world around us. AI is basically a sophisticated software layer that emulates the very capabilities of human intelligence. John McCarthy, an American computer scientist and cognitive scientist, first coined the term artificial intelligence in the 1950s. AI aims to develop intelligence systems capable of mimicking human decision-making abilities. It is both science and technology. The science part is about understanding how machines can learn and make decisions. The technology part uses that knowledge to create tools and platforms that solve problems. AIs are of different types in terms of applications and features. They are :

Generative AI : It uses Machine Learning (ML) to create original content, such as text, images, audio, software code, etc. It is used in Chatbots(a computer program that uses AI to communicate with users through text or voice , automate customer service, for example : visual dialog chatbotAI , kik, sephora etc), virtual assistants and recommendation systems.

Natural Language Processing(NLP) : It allows computers to understand , analyze, and generate human language. NLP uses ML and computational linguistics to process large amounts of text and spoken words.

Computer Vision : Identifying or detecting objects , its shape, size, position and all microscopic detail features of the objects.

Fuzzy Logic : Provide infinite states between 0 and 1. Help to know all the finer details of an object, for example : slightly left, colour construct etc.

Expert system : A simple example is to know the cracking deep inside a pillar of a building and many more. Fault finding in an electronic circuit etc.

The AI is divided into three different branches :

Machine Learning(ML) : It can automatically adapt with minimal human interference . It is a type of AI that teaches computers to learn from data.

Deep Learning (DL): It is a more advanced subset of Machine learning that uses Neural Network to learn. It can efficiently deal with unstructured data.

Neural Network(NN): It is a method in AI that teaches computers to process data in a way that is inspired by the human brain .

AI and Quantum Computing are complementary techniques that can be used together to solve complex problems like protein structure prediction, molecular structure etc. which are today very challenging tasks. Today the combination of AI and Quantum Computing helping our understanding from a scale of 10-18m to parallel universe, cosmic singularity and many more. Computer Network technology enhanced our connectivity across the globe and beyond . Today, the deep space exploration, Deep Sea exploration, Satellite communication etc are few examples of the unprecedented strength of computer network.

Edge computing is another new technology coming up which brings the information storage and computing abilities closer to the device that produce information and the users who consume it. Internet of Things (IOT) which revolutionizing the entire network communication

technology enabling sensors and devices communicate real-time data to the network. It is a very efficient technology in resolving Latency issues with Cloud technology. Both Edge and IOT technologies are powerful way to rapidly analyze data in real-time. The IOT enabling us today to understand the entire globe within a span of every mm range. It is connecting to cloud or data centres for processing of data. Basically, IOT is a collective network of connected devices and technology that facilitate communication between devices and cloud and between devices.

Edge computing is a technique that allows for computation locality, faster decision-making, and real-time data generation. It is based on the physical proximity of computing infrastructure to the device generating data. Quantum Dot (QD) is a new technology discovered by Russian scientist A.K Vasilovov in 1981, which uses quantum mechanics to process information. QDs are ultra-sized semiconductors made up of 100 to 10,000 atoms, with the size determined by the Bohr excitation radius (Rb). Applications include Quantum Dots Laser, LED, and QD semiconductor optical amplifier. Quantum-Enhanced AI can enhance AI's capabilities by removing limitations in data size, complexity, and problem-solving speed. Unlike classical computers, which use binary bits, quantum computing uses subatomic particles like atoms, electrons, photons, and ions as bits with information and their states. These states can be superposed, allowing for more combinations. Quantum computers can run in parallel and perform exponentially faster than classical computers.

Finally, I want to say that these fields may opt as carrier in their life.

An interview with
PROF. (DR.) MANOJ KUMAR DEKA

1. What inspired you to pursue a career in technology and teaching?

Technology is an ever-evolving field that shapes civilizations and industries. My desire to work in technology stemmed from my love of creativity and problem-solving. I can share this passion, provide young generation with knowledge, and help create a trained workforce that can propel future breakthroughs by teaching.

2. How does Assam Skill University ensure students gain practical experience?

Assam Skill University places a strong emphasis on experiential learning through workshops, industry-driven courses, well-equipped labs, and real-world projects. We work with businesses to give students practical experience through skill development programs, internships, and on-the-job training, guaranteeing that they graduate with both theoretical understanding and practical expertise.

3. What are some key skills that students should focus on for a successful career?

Pupils must to concentrate on both soft and technical skills. Digital literacy, problem-solving skills, critical thinking, flexibility, and technical expertise in their field are crucial. They will also stand out in a competitive job market thanks to their proactive learning style, teamwork abilities, and communication skills.

4. Are there any internship or industry collaboration programs for the students in ASU?

Indeed, Assam Skill University has been constantly trying to buildup solid industry ties and provide students with live projects, apprenticeships, and internships with top businesses. By bridging the gap between academic knowledge and industrial demands, the programs to be offered by Assam Skill University may be able to offer guarantee that students will adequately be equipped for their future jobs.

5. How does the university stay updated with the latest advancements in technology?

To stay abreast of new developments, ASU keeps tight relationships with academic institutions, research centres, and leaders in the business. Faculty members participate in research, industry partnerships, and ongoing education. We also host expert workshops, hackathons, and lectures to bring students up to date on the newest technology advancements.

6. What types of projects or research work do students get involved in?

ASU students work on a variety of initiatives, including practical problem-solving in fields like artificial intelligence, cybersecurity, IoT, smart infrastructure, and sustainable manufacturing. Students can apply their abilities to significant advances through a variety of initiatives that are funded by the industry or related to societal concerns.

7. Have you ever faced obstacles/problems while pursuing your passion, and how did you overcome them?

As with any trip, there were obstacles to overcome when pursuing a career in technology and education, such as keeping up with the quick changes in technology and juggling research and teaching duties. It took perseverance, constant learning, and methodological adaptation to get over these obstacles. The secret is to accept lifelong learning, look for mentorship, and maintain your curiosity.

8. How does the university support students in career placement after graduation?

Students will get help with job placement, resume construction, and interview preparation from ASU's specialized placement and career development unit. We will make sure students have access to work opportunities that match their skills and goals through business collaborations, skill-based training, and job fairs.

9. What advice would you give to students who want to excel in the tech field?

Continue to be curious and never stop learning. Staying up to date with new certifications, trends, and industry standards is essential because the technology field is constantly evolving. Work on practical projects, develop a strong problem-solving mindset, and improve your communication skills to complement your technical expertise. Participating in hackathons and competitions and networking with professionals can give you a competitive advantage.

10. What role do you see technology playing in Assam's future development?

Technology will have a big impact on Assam's development and enhance industries including agriculture, healthcare, education, and industry. With advancements in automation, digital transformation, and artificial intelligence, Assam has the potential to become a hub for innovation, skill development, and sustainable growth. In addition to raising living standards, this would create new business opportunities.

PHOTOGRAPHY section

"Seeing the world through a different lens."

Gautam Kumar Das,
Assistant Professor





Arina Phukan,
6th sem



Harshita Sarma,
2nd sem



Mayuri Kankana Devi,
4th sem

"Freezing time, one click at a time."



Jina Das,
2nd sem



Puja Devi,
2nd sem



Niha Sahu,
4th sem



Muskan Pareek,
6th sem

“Pixel Perfect”

Riya Ahmed
6th Sem



Bobi Das
2nd sem



Adhya Das,
2nd sem

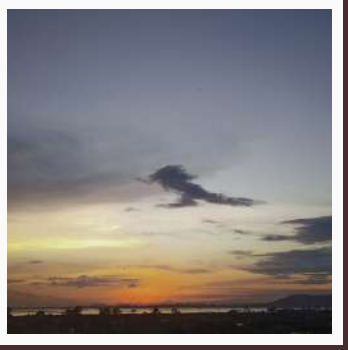




Anisha Aleen Kerketta,
2nd sem

“Where vision meets reality.”

Krishnamoni Deka,
2nd sem






Rashika Sarma,
6th sem

Mehwish Reza,
4th sem

"Creating timeless treasures."

Dharitri Pathak,
2nd sem

Sweta Lama,
2nd sem

Madhusmita Paul,
2nd sem

Hiyashri Mahanta
2nd sem

"The art of storytelling without words."

Nibedita Deka,
4th sem

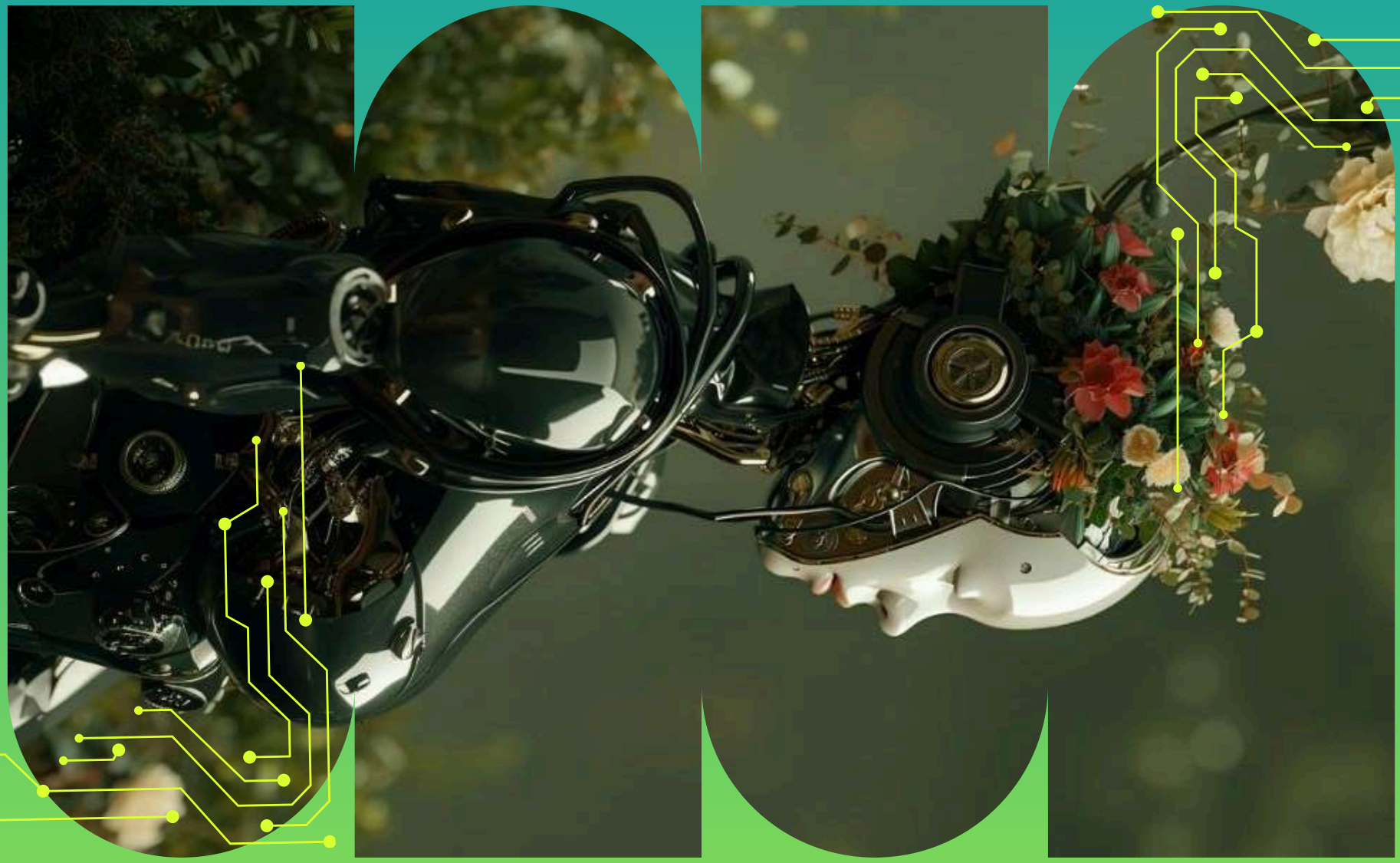
Rosida Begum,
4th sem

Upasana Mahanta,
6th sem

Nabanita Baishya ,
2nd sem

Kasmita Kashyap,
2nd sem

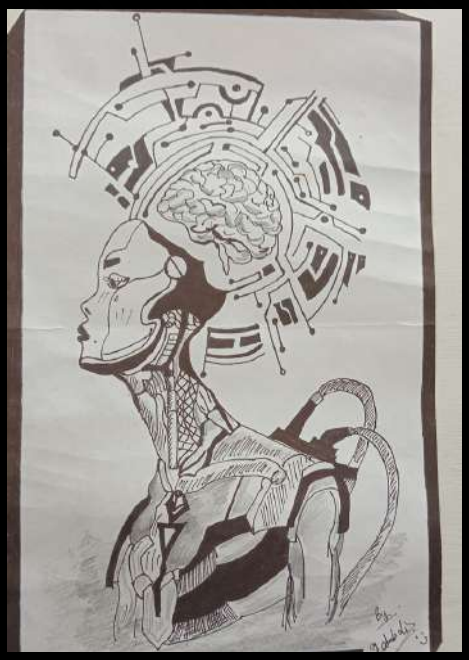
ARTWORK section



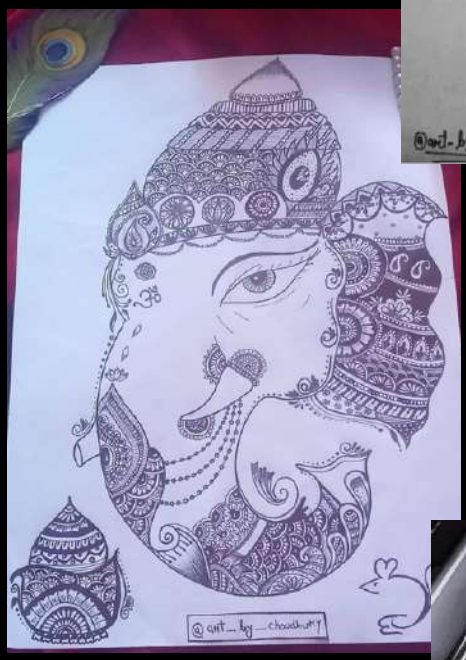
Dipsikha Das,
6th sem

Jina Das,
2nd sem

Prathana Neog,
6th sem

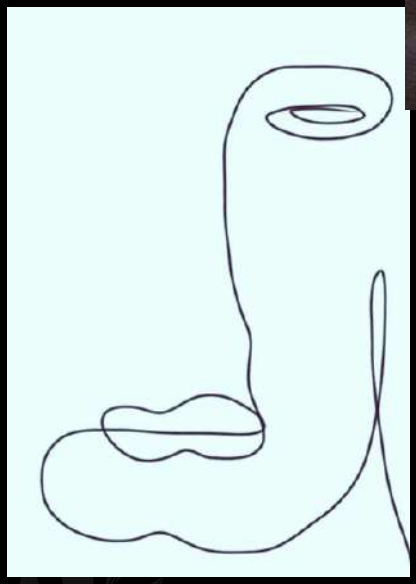


Shatabdi Borthakur,
6th sem



Sneha Choudhury,
4th sem

Krishnamoni Deka,
2nd sem

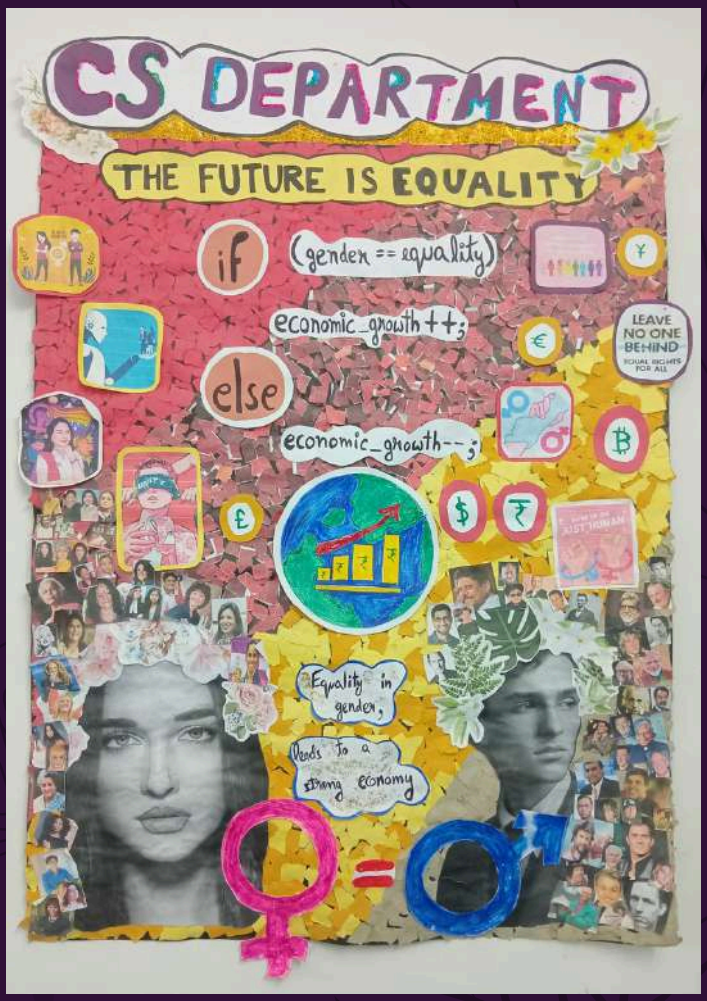


Rashika Sarma,
6th sem

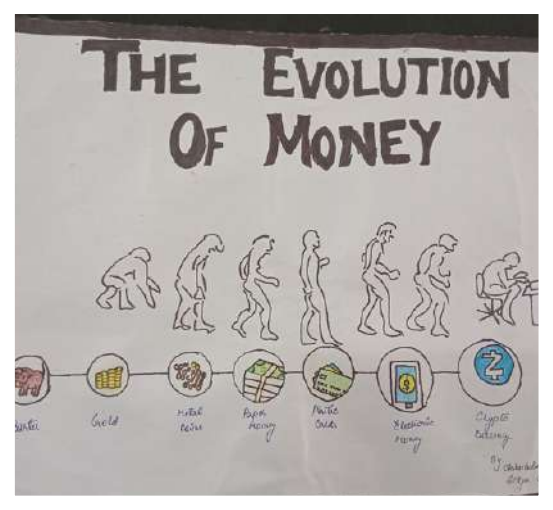
Dixita Das,
2nd sem

Neha Singh,
Nidhi Singh,
6th sem

Mufliha Begum,
2nd sem

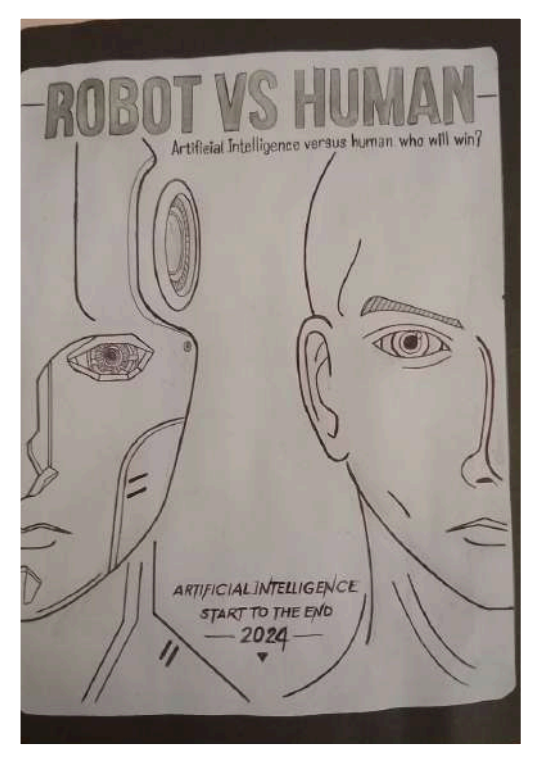


Shatabdi Borthakur,
Riya Ahmed,
Nupur Das,
Rashika Sarma,
6th sem

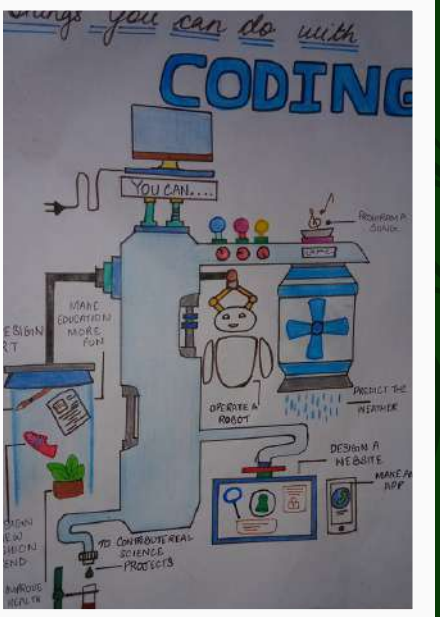


Nisha Muchahary,
Gayatri Daimary,
6th sem

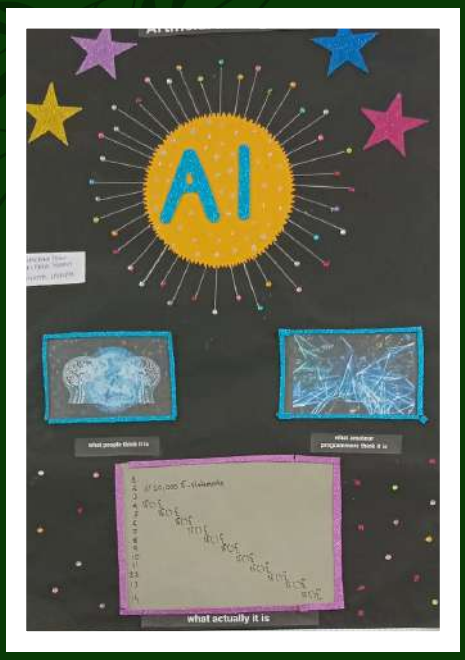
Aakanksha Sinha,
Silpa Chetri,
6th sem

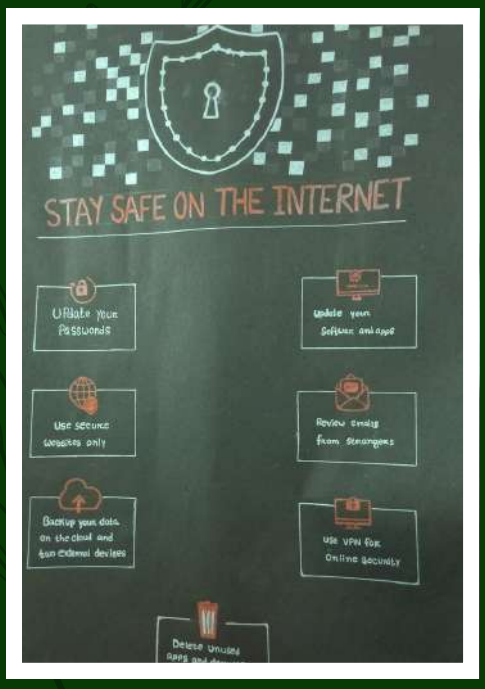


Kohinoor Begum,
4th sem

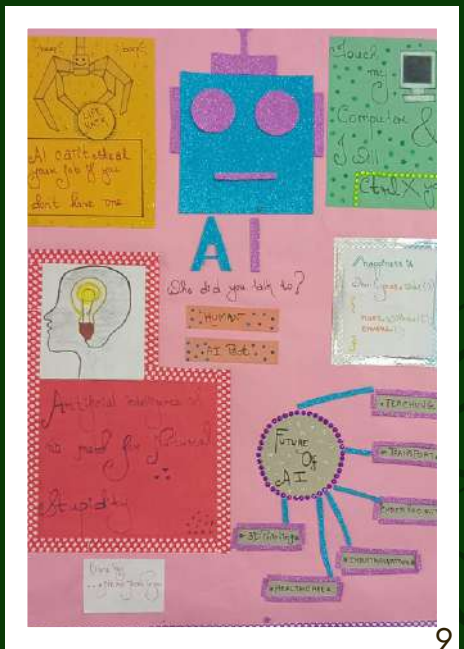


Aditi Kashyap
Hajong,
4th sem



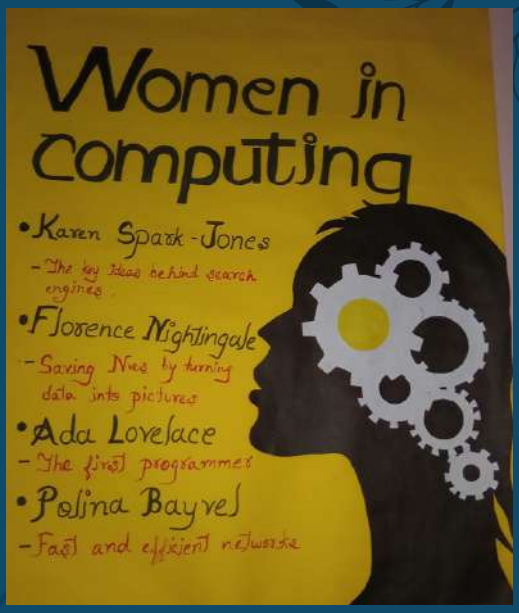


Upasana Mahanta,
Prathana Neog,
6th sem

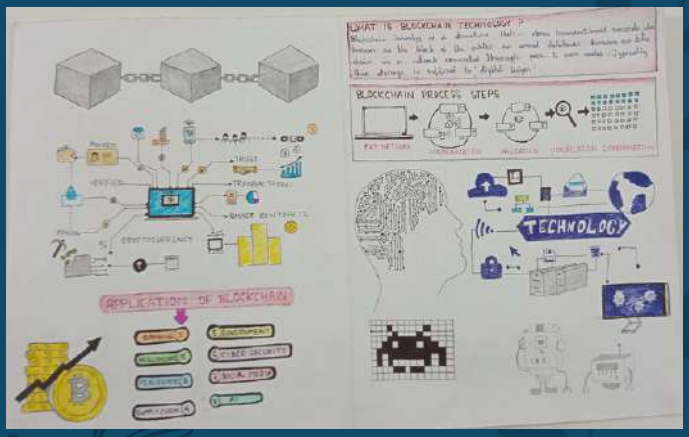


Nilanjana Pegu,
Namita Lahkar,
Kalpajyoti Borah,
6th sem

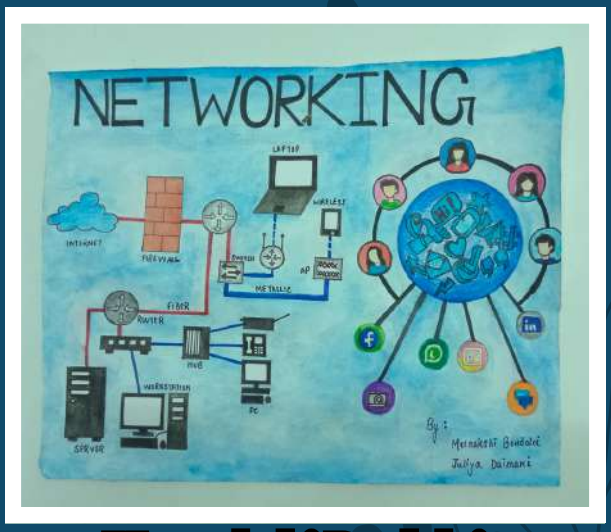
Arina Phukan.
Manai Hansepi
6th sem



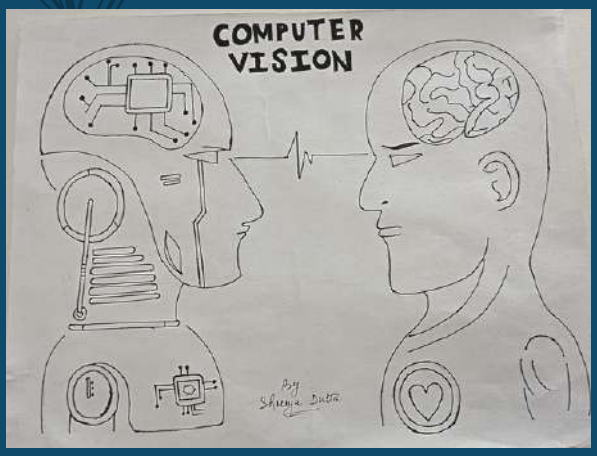
Momi Das,
4th sem



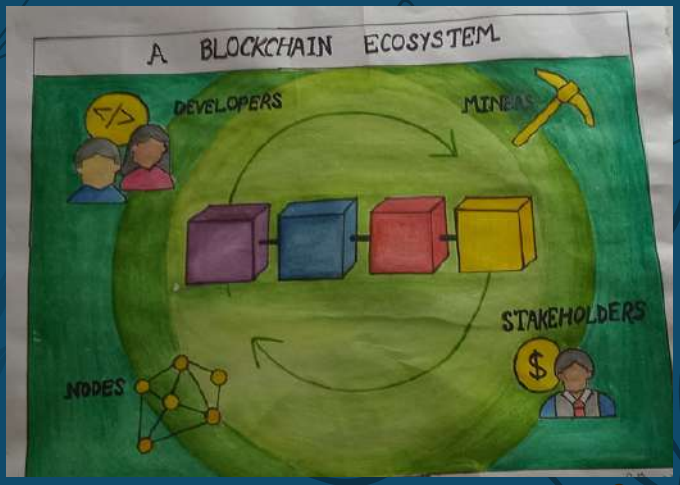
Kankita Kalita,
6th sem



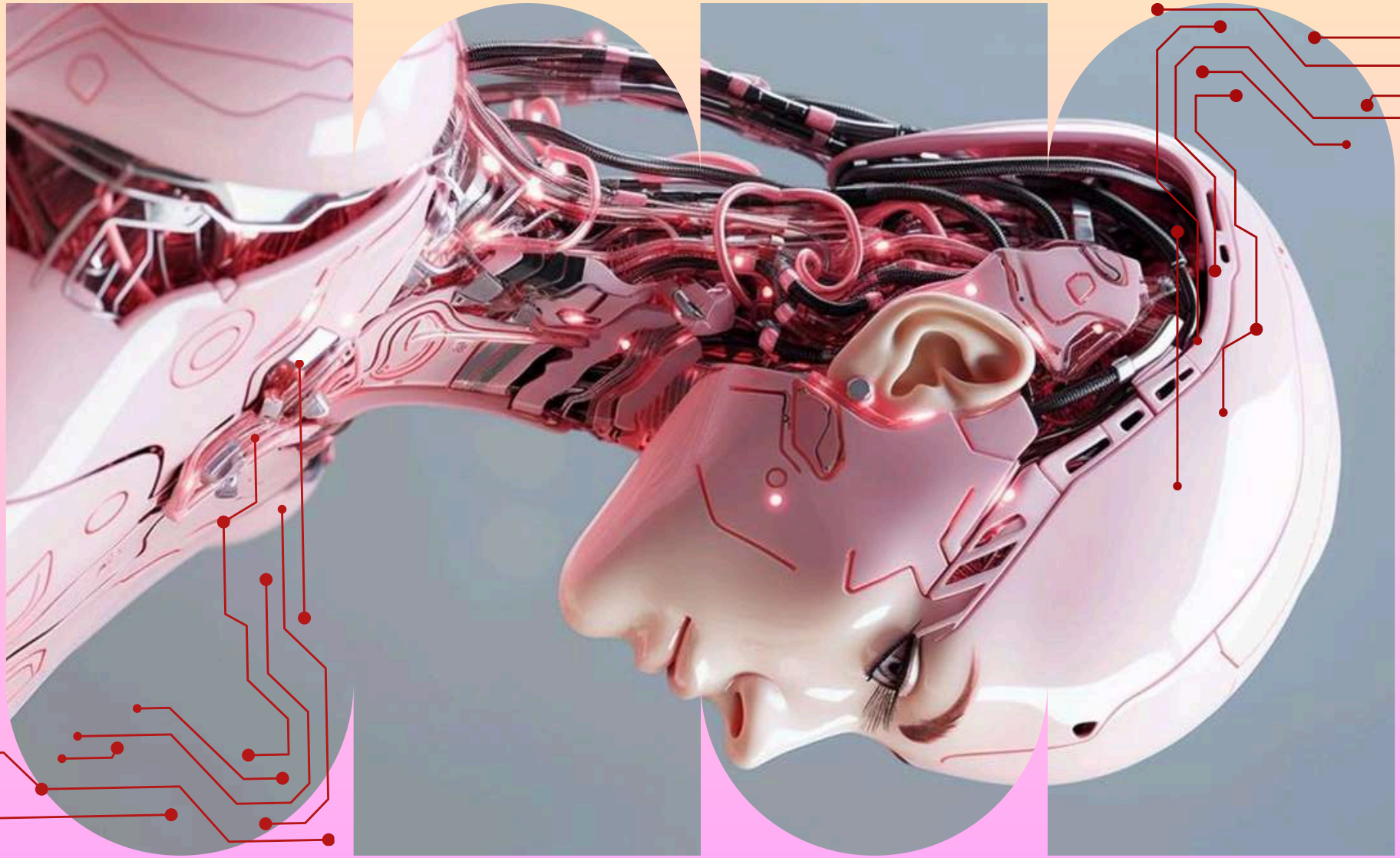
Meenakshi Bordoloi,
Juliya Daimari,
6th sem



Shreya Dutta,
6th sem



DEPARTMENT gallery



1st batch

2nd Batch

3rd Batch


SPECIMEN
SPECIMEN


DEPARTMENT OF COMPUTER SCIENCE
HANDIQUE GIRLS' COL
GUWAHATI
e-Banking
Micromax
AIRCEL

Batches 2023,2024 and 2025

Batches 2024,2025 and 2027

Batches 2025,2027 and 2028

Cultural rally

‘Women Empowerment ’, 2023

‘Festivals of India’, 2024

‘Applications Of Robotics’, 2025

Teachers' Day Celebration, 2022

Parent-Teacher Meeting, 2024

Digital India,2024

CS students visited Gauhati University to attend Digital India future Skills Summit 2024 held at Gauhati University

Batch 2022-25 and 2023-27 students have decorated the classrooms L1 and L3 with posters.

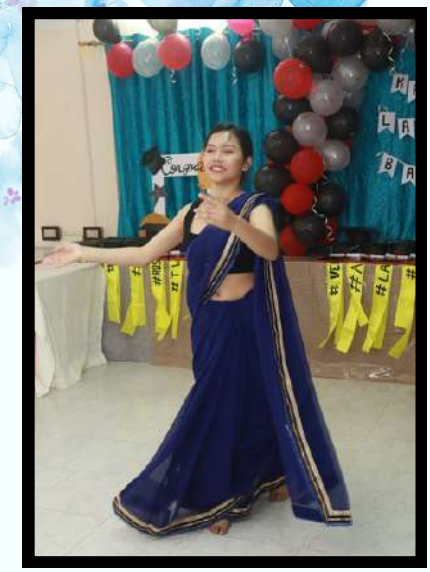
Rangoli Competition

Rangoli Competition, 2022
1st prize : 1st sem (Batch 2025)
2nd prize : 5th sem (Batch 2023)
3rd prize : 3rd sem (Batch 2024)

Rangoli Competition, 2023
1st prize : 5th sem (Batch 2024)
2nd prize : 3rd sem (Batch 2025)
3rd prize : 1st sem (Batch 2027)

Freshers Day, 2022

Farewell of batch 2023



Teachers Day & Freshers Day, 2023

Farewell of batch 2024

Teachers Day & Freshers Day, 2024

Farewell of batch 2025

Industrial visit

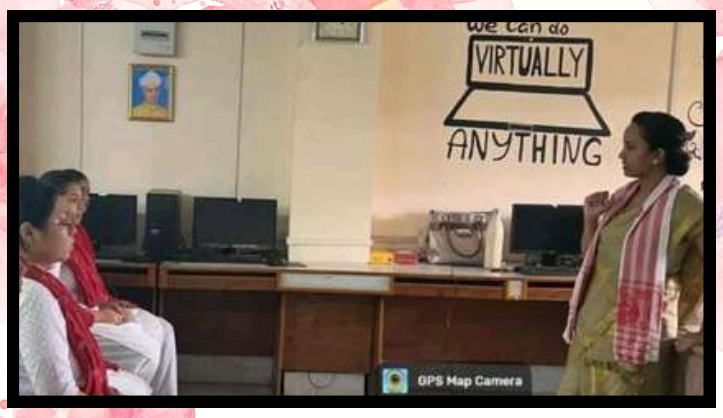
Industrial visit to DATA CENTRE, APDCL ,Khanapara with the students of 2024 batch

Batch 2028 visiting Veterinary College Field, Khanapara, on 1st March, 2025, to attend Advantage Assam 2.0

The Computer Science department conducted a field visit to Kanoka, Tezpur on 26th October 2024, for the students of 5th semester.

Given here, are the two main activities which they participated in:
Activity 1: Seminar on the topic "Job Prospects in Gaming" by young entrepreneur and Roblox Game Developer NEIL SHANKAR NATH.
Activity 2: Industrial field visit to Assamica Agro Pvt Ltd. The purpose of the field visit was to explore, observe professional practices of manufacturing processes of commercial Organic Tea products.

Interactive session



A session with Dr. Kangana Bora, Assistant Professor of Cotton University, on "Transforming Healthcare using AI and Computer Vision." on 5/11/24.

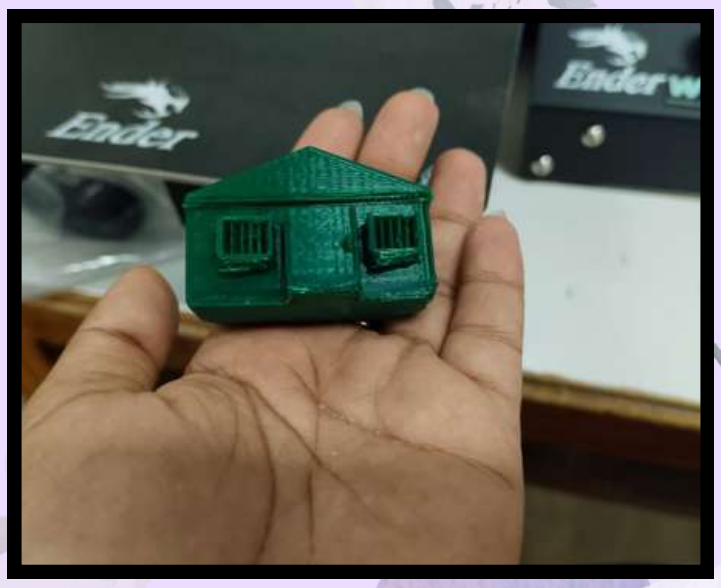
A talk on preparation for competitive examination and career progress by Aditi Bhuyan, 2025.

A talk on career for the students by the faculty members of Birangana Sati Sadhani Rajyik Vishwavidyalaya, Golaghat held on 30th May, 2024

Students attending an interaction program with faculty members of Assam Skill University, Guwahati on various courses that the university is offering for creating a skilled based opportunity-ready people on 30th May, 2024.

Srudents of CS dept. presented a group dance performance on Shree Ganesha during the College Week.

Batch 2024 executing interior wall refurbishment for the computer lab



CS students attended a workshop on 3D printing, 2025.

Workshop on the trending future in Multimedia & VFX with Gen AI, 26th April, 2025

Wall Magazine ,2025

Batch 2028 participated in Code Bijoy competition organized by IT dept. of B Borooah College, 2025.

CS students completed a Course on Yoga, 2025.

CS students completed a workshop on Basketball, 2025

CS students attended a course on Borgeet organized by Aangik, the Cultural Club

An interactive session held to promote awareness related to health and fitness on 10th March, 2025

CS dept. organized an extension activity with Kamakhya HS Sxhool on 9th May, 2025, to address the need for awareness regarding the Internet of Things and it's potential threats.

ACHIEVEMENTS of students

Sanjana Sharma, 6th sem

1. Secured 1st prize in Badminton, 2025 College week
2. Secured 1st prize in Kho-Kho, 2025 College week

Gayatri Daimary, Sanjana Sharma, and Prathana Neog, 6th sem

They secured 1st prize in Volleyball, 2025 College week

Gayatri Daimary, 6th sem

1. Secured 1st prize in Kho-Kho,2025 College week
2. Secured 1st in Basketball, 2025, College Week
3. Secured 2nd in Basketball, IIT Guwahati, 2024
4. Secured 1st prize in Volleyball, 2024, National Sports Day
5. Secured 1st prize in Basketball, 2023, College Week
6. Secured 1st prize in Volleyball, 2023, College week
7. Secured 1st prize in Volleyball, 2023, National Sports Day
8. Secured 2nd prize in Basketball, Spirit 2023, Handique team
9.Secured 1st prize in Kho-Kho, 2023, College week
10. Khel Maharan state level, winner team (Kamrup Metro), 2023-24

Shatabdi Borthakur, 6th sem

1. 2nd runner up in Anchoring Competition, 2025 College week
2. Secured 1st prize in Western solo singing competition, 2024 AIIMS ETERNIA
3. Winner of Ramp Walk competition, 2023, organized by Kaziranga Wildlife Society and Disputatio
4. 2nd runner up in Western Singing Competition, 2024, College Week
5. 2nd runner up in Western Singing Competition, 2023, College week

Gayatri Daimary, Nisha Muchahary, 6th sem

Received Black Belt in Taekwondo, 2025

Nisha Muchahary, 6th sem

1. Secured 1st prize in Folk Group dance competition, 2023, College Week
2. Secured 1st prize in Taekwondo kyorugi Senior belt U-67, 2025, College Week

Violina Pretom Sharma, 6th sem

Secured 3rd prize in Folk dance, Youth fest 2024

Nibedita Deka, 4th sem

1. 3rd prize in volleyball, 2023-24
2. 2nd prize in 400m race, 2023-24
3. 2nd prize in 100m race , 2023-24
4. 3rd prize in 400 m race, 2024-25

Dipshikha Kashyap, 4th sem

1. Youth Fest Zonal 3rd prize folk dance, 2024
2. College week 2025 folk dance, 1st position

Neha Boro, 4th sem

Assam sanskritik maharashtra: LAC level bihu (group A): 1st prize
बांसुरी रंग महोत्सव 2023(राष्ट्रीय नाट्य एवं नृत्य महोत्सव): 1st (bihu)

Cleanest Department Award, secured by Computer Science Dept., 2023

Bobi Das, Jina Das, Dikshita Sarma, 2nd sem

1st prize, Quiz Competition, 2024

Karishma Rabha, Neha Rani Barman,Rani Paswa,2024

Runners up of Poster Making Competition on Cleanliness Drive, 2023

Nisha Muchahary, Mehar Sultana, Arina Phukan, 6th sem

2nd prize, Quiz Competition, 2024

Winner of Wall Magazine Competition, Computer Science Department, College Week, 2023

Chanchal Sethia, Doli Mehta, Dikshita Bora, 2nd sem

3rd prize, Quiz Competition,2024

Nupur Das, 6th sem

Miss Freshers, 2022

Mahasweta Mishra, 4th sem

Miss Freshers, 2023

Dixita Das, 2nd sem

Miss Freshers, 2024

Khushi Sharma and Aditi Hajong , 4th sem, won the Student Union election as Vice President and Magazine Secretray, respectively, for the term 2024-25.

Felicitation ceremony of Harshita Sarma, Rank 1, in the BCA Examination, under Gauhati University, 2024

Felicitation ceremony of Aditi Bhuyan, Rank 3, in the BCA Examination, under Gauhati University, 2024

Nityashree Modak, 2024 batch

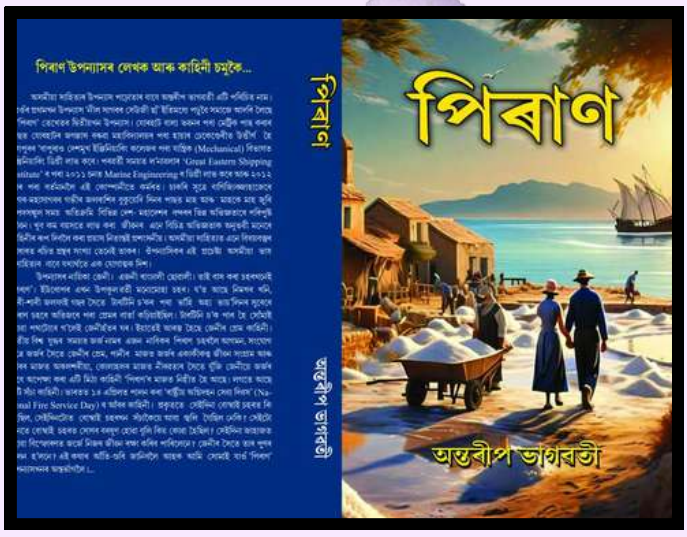
1. 1st runner up of Miss Assam,2022
2. Winner of Assam's Next Top Model, season 3
3. DY Miss Sampurna 2024

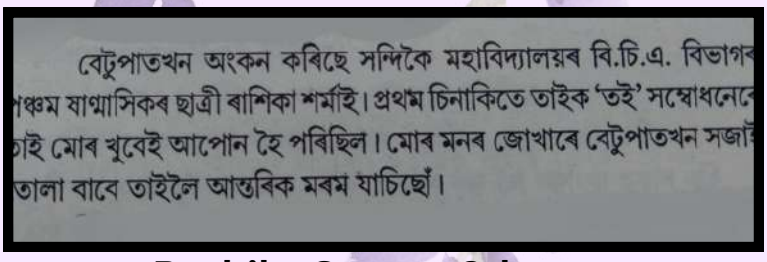
Ten students from BCA (Batch 2024.) , got placements as AR Executive in the placement drive conducted by Omega Healthcare on 11th November, 2023.

Aditi Bhuyan secured Rank 1 in JMEE under ASTU, 2024.

Shatabdi Borthakur (6th sem) and Sneha Choudhury (4th sem)

They secured the 2nd prize in Bollywood Duet Singing Competition held by AIIMS ETERNIA 2024




বেটুপাতখন অংকন কৰিছে সন্দিকৈ মহাবিদ্যালয়ৰ বি.চি.এ. বিভাগৰ
পঞ্চম ষাণ্মাসিকৰ ছাত্ৰী ৰাশিকা শৰ্মাই। প্ৰথম চিনাকিতে তাইক 'তই' সম্বোধনেৰে
তাই মোৰ খুবেই আপোন হৈ পৰিছিল। মোৰ মনৰ জোখাৰে বেটুপাতখন সজাই
তালা বাবে তাইলৈ আন্তৰিক মৰম যাচিছোঁ।

Rashika Sarma, 6th sem

She has designed a digital art which was used as the cover for the book 'Piran'

2nd prize in Rangoli Competition, secured by the team Chandrakin (CS Department)

ALUMNI Legacy

SEEMA REKHA BARUAH

BATCH 2016

FROM A SMALL VILLAGE IN GUWAHATI TO A SENIOR SOFTWARE ENGINEER IN THE UK: MY JOURNEY

I am Seema Rekha Baruah, and my journey — from a small village near Guwahati to becoming a Senior Software Engineer in the UK — is a story of dreams, determination, and resilience.

THE BEGINNING: HANDIQUE GIRLS' COLLEGE

My story begins at Handique Girls' College in Guwahati, where I pursued a Bachelor of Computer Application. Growing up in a small village, technology felt like a distant world — something I was curious about but never fully exposed to. While many of my peers talked about traditional careers in medicine or civil services, I found myself drawn to the boundless possibilities of software and innovation.

It wasn't easy. There were times when I doubted whether someone from a small town like me could break into the competitive world of technology. Access to computers and the internet was limited, and the curriculum sometimes felt outdated. But every challenge only strengthened my resolve — I knew I had to push forward, not just for myself but for those who believed in me. I spent countless hours in the computer lab, teaching myself new programming languages and staying up-to-date with the latest industry trends.

SEIZING OPPORTUNITIES: WIPRO AND BITS PILANI

My first big break came when I was offered a job at Wipro during campus placements. This wasn't just about getting a job — it was about stepping into a world I had dreamed of.

Wipro didn't just give me a platform to grow professionally; they also sponsored my M.Tech in Software Engineering at BITS Pilani — an opportunity I never thought I would have. Balancing a full-time job with higher studies was challenging, but it taught me discipline, perseverance, and the importance of grabbing every opportunity that comes your way. The coursework was rigorous, and the workload was intense, but I was determined to succeed.

I spent five years at Wipro's Bengaluru office, working hard, learning constantly, and growing not just as an engineer but as a problem solver and leader. I was exposed to a wide range of technologies and projects, and I quickly developed a reputation for being a reliable and innovative team member. I also took on leadership roles, mentoring junior engineers and managing projects.

A GLOBAL LEAP: FROM INDIA TO THE UNITED KINGDOM

In 2022, my journey took an international turn when I was transferred to Aviva's Bristol and Norwich offices in the UK. It was a surreal moment — moving from a small village in Assam to working in a different country.

Suddenly, I wasn't just representing myself — I was representing where I came from. I was part of global teams, contributing to projects that reached thousands of people, and learning how to adapt and excel in an entirely new environment. The cultural differences were significant, and the work environment was fast-paced, but I was determined to make the most of the opportunity.

THRIVING AT NEXT UK AS A SENIOR SOFTWARE ENGINEER

Today, I work as a Senior Software Engineer at NEXT UK, one of the largest fashion and home retailers in the United Kingdom— a role that has pushed me beyond my limits and helped me grow in ways I never imagined.

At NEXT, I'm not just building software — I'm building solutions that impact millions of users. I've had the opportunity to work on exciting projects with major brands, lead teams, and take on challenges that test both my technical skills and leadership abilities. The work is demanding, but it is also incredibly rewarding.

One of my proudest moments was contributing to the launch of Reiss in 30 countries and helping onboard the Made app — high-stakes projects that required quick thinking, strategic planning, and teamwork. These projects were not without their challenges, but I was able to leverage my experience and expertise to deliver successful outcomes.

But what makes this role truly special is the chance to inspire others — to mentor junior team members, share what I've learned, and create an environment where innovation thrives. I believe that it is important to give back to the community, and I am passionate about helping others succeed.

LOOKING AHEAD: A MESSAGE TO MY JUNIORS

To my juniors at Handique Girls' College — if there's one thing I want you to remember, it's this:
Your background doesn't define your future. Whether you come from a small village or a big city, your dreams are valid, and your potential is limitless.
Success doesn't happen overnight. It's built day by day, through hard work, late nights, and a lot of learning.
Challenges are just stepping stones. Every setback I faced only made me stronger — and the same will be true for you.
As I look to the future, I hope to continue growing not just as a software developer but also as a leader and mentor. I want to use my skills and experience to make a positive impact on the world.

The road ahead may seem daunting, but I assure you that with courage and perseverance, you can overcome any obstacle. As a proud alumna of Handique Girls' College, I know the foundation it provided me was invaluable. My hope is that my journey inspires you to pursue your dreams relentlessly and always believe in your potential.

I have walked a similar path and understand the challenges that lie ahead. Embrace the journey with confidence and remember that you have the power to achieve greatness.

ANKITA SEN ROY

BATCH 2014

FROM DREAMS TO DETERMINATION: MY JOURNEY IN TECH

Hi, I'm Ankita Sen Roy, a proud alumna of Handique Girls' College's BCA batch of 2011–2014. Today, I'm working as a Product Manager at Phreesia—a US-based healthcare tech company that builds powerful clinical support tools. But the journey to get here wasn't exactly straightforward. In fact, it all began with a setback.

After my 12th, I couldn't crack any government engineering entrance exams. It was a tough pill to swallow, especially because I had always aspired of becoming a Software Engineer. But as life would have it, I stumbled upon a course I had never even heard of—Bachelor of Computer Applications (BCA). Little did I know, this would become the turning point of my life.

Choosing BCA turned out to be one of the best decisions I ever made. It gave me a path that brought me closer to my goal. Throughout my bachelor's, I gave my 100% to every subject, project, and challenge. With God's grace and relentless effort, I was able to meet my own expectations.

Just when I thought things were falling into place, life threw another curveball. Despite securing a top-20 state rank in the Assam Joint MCA Entrance Examination (JMEE), I was denied admission to any state Government Engineering Colleges or Universities because Gauhati University had delayed releasing semester's results. It was heartbreaking—but it taught me something valuable: The system may fail you, but your determination must never fail.

I held on to hope and joined Amity University, Noida, for pursuing Master of Computer Applications (MCA). That experience was full of exposure—I worked on live software projects and even published a research paper that later became a patent. I landed a job through campus placements, and I was absolutely over the moon that day. It was in that moment that I truly realized Dreams do come true. I joined the company and slowly began gaining hands-on experience with the latest technologies. Soon after, I realized I had to explore Bengaluru — India's Silicon City, the tech capital of the country.

So, I made a bold move. I left my job in Noida and shifted to Bengaluru without any references. I started applying and giving interviews right away—sometimes three in a single day. Within a few days, I got my first break as a DevOps Engineer at Verint Systems.

Since then, I've only looked forward. I often look back at those early struggles and remind myself: I did it. But the journey isn't over—there's still a long way to go.

To all my juniors at HGC: Never lose hope. If you're determined and keep moving forward, you'll get where you want to be.

Ankita Sen Roy
Product Manager, Phreesia

EGYPTA GOGOI

BATCH 2022

FROM LOST TO FOUND: MY JOURNEY IN COMPUTER SCIENCE

Looking back on my journey, I can't help but smile at how far I've come. As a little girl, I was drawn to the road less traveled. While my friends spoke of becoming doctors and engineers, I felt pulled toward something different.

I chose to pursue my bachelor's in computer application rather than conventional engineering or medicine. It was my first step toward carving my own path, and I was filled with determination to make my parents proud.

But life has a way of testing our resolve. During those years, I developed habits that pulled me away from my goals. Social media addiction consumed my time, bad habits formed, and arrogance clouded my judgment. The promise I had made to myself and my parents began to fade from view. They only wanted to see me stand on my own feet, yet even that simple dream seemed to be slipping away as I lost sight of my purpose.

When my university delayed declaring results, I watched helplessly as opportunities for masters programs passed me by. The gap year that followed was especially difficult as I saw my school friends starting their careers while I remained in limbo.

Then came 2022 – the year everything changed. Something shifted inside me. A renewed determination took hold, and I channeled all my energy into preparing for my masters entrance exam. The hard work paid off when I secured admission to one of the best universities in my state. Yes, I started later than most, but timing doesn't dictate destiny. Today, I'm working as a back-end engineer intern at an amazing startup in Bangalore – my dream role in a city full of opportunities.

To every junior feeling lost or questioning whether their efforts will ever bear fruit: keep going. Work hard, but also work smart. Your journey might not follow a straight line or a conventional timeline, but persistence will eventually lead you where you want to be. I'm living proof that it's never too late to reclaim your purpose and transform setbacks into comebacks. I'm cheering you on, because I know that one day, you too will look back and marvel at how far you've come.

HIMAJYOTI DEKA

BATCH 2022

"CHASING MY DREAM: BECOMING A COMPUTER ENGINEER"

Life never works out the way we want it to, but sometimes the detours in life lead us exactly where we need to be. There were moments when I felt lost, doubted myself, and wondered if I would ever reach my dream.

THE DREAM OF BECOMING A COMPUTER ENGINEER

Since my school days, I always dreamt of becoming an engineer—a computer engineer. I had everything planned: I would take Science in Higher Secondary, prepare for engineering entrance exams, and secure a seat in a good college. But life had different plans for me. Despite my efforts, I couldn't secure a seat in an engineering college. It was a heartbreaking moment, and I felt lost.

Determined not to give up on my passion for computers, I decided to pursue BCA at Handique Girls' College—a choice that initially felt like my second option but later turned out to be one of the best decisions of my life.

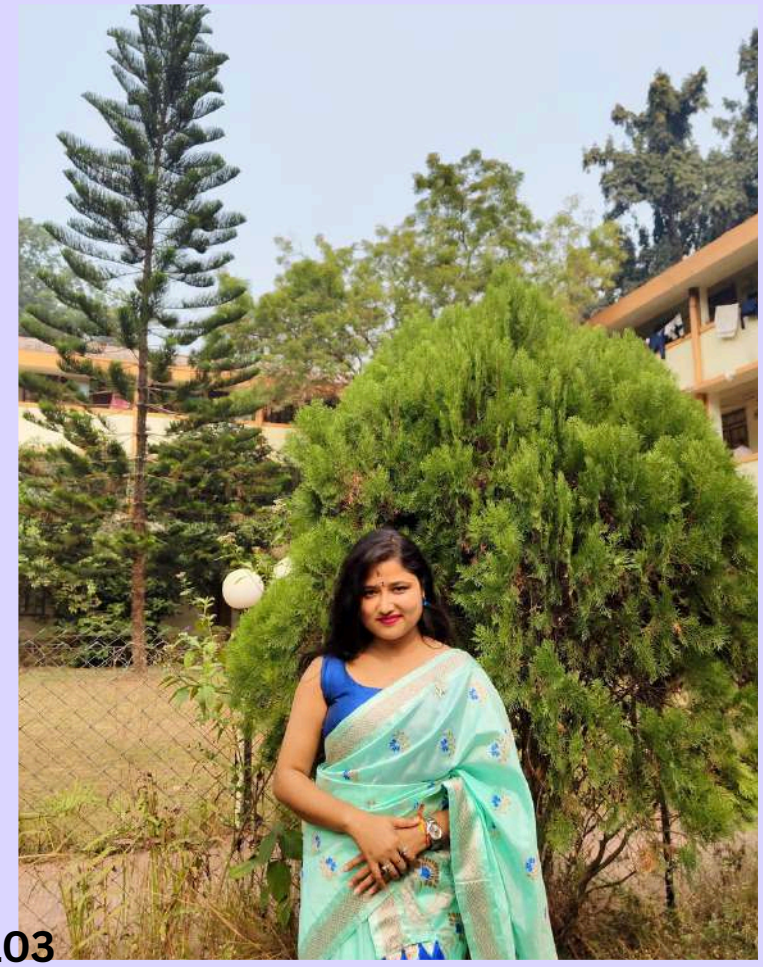
OVERCOMING FEAR AND SELF-DOUBT

Starting my BCA journey with no knowledge of computer science was frightening. Every class made me nervous, each fresh topic intimidating, and self-doubt constantly whispered, "I will never cope with it". But by the passage of days, this changed. The friendly environment in my department, encouraging teachers, and understanding buddies did magic for my confidence build-up. Eventually, I came to enjoy whatever I was reading.Gradually, I started enjoying what I was learning. My aspiration to become a Computer Engineer was revived again, and I decided to study MCA in order to grow my skills and knowledge.

A YEAR OF STRUGGLES AND ACHIEVEMENTS

The year 2022, perhaps one of the most difficult periods of my life. Delayed results and unforeseen mistakes made things even worse. A gap year was like a monster of failure, and self-doubt struck again. But instead of letting these obstacles break me, I chose to prepare even harder.

2023 became the turning point of my life. My hard work paid off when I secured admission into one of the best government engineering colleges in Assam for MCA which is Assam Engineering College—the very college I had dreamt of after my Higher Secondary.



A HEARTBREAKING LOSS AND FINDING STRENGTH

Just when I thought things were finally falling into place, life hit me with the biggest loss—I lost my father. Everything changed. I felt completely broken, unsure of what to do next. It felt as if time had stopped, and I questioned, "How do I move forward now?".But then I reminded myself—I had to be strong, for him, for my family, and for my dreams. I told myself that if I achieve something great, it will make him proud. That thought gave me the strength to move forward.

CHASING BIGGER DREAMS

Despite my academic workload, I decided to prepare for the UGC NET exam alongside my MCA studies. Balancing both was not easy, but I pushed myself. And in my very first attempt, I qualified for PhD admission.

At the same time, as I neared the end of my MCA journey, I applied for internships and got selected in all three interviews I appeared for.

FROM A DREAMER TO A COMPUTER ENGINEER

Now, as I complete my final semester of MCA, I can finally say with pride:

"Yes, I am a Computer Engineer!"

The journey was tough, full of uncertainties, failures, and hardships. But today, I stand stronger, more confident, and ready to face whatever life throws at me.

A MESSAGE TO MY LOVELY JUNIORS

To all the lost and confused who do not know what is next, do not be frightened. Life holds surprises, but if you are determined and unshakeable, you will get where you are going. There will be failure. There will be doubt. But have faith in the process. Meet each obstacle, accept each lesson, and never lose faith in yourself.

As the famous line goes:

"Agar kisi cheez ko dil se chaho, toh poori kainaat use tumse milane ki koshish karti hai."

This line perfectly reflects my journey so far. So, be focused, be strong, and chase your dreams! You will get there!

ADITI BHUYAN

BATCH 2024

BCA TO MCA: FROM HGC TO AEC

Computer was something I always had an interest in, to the point my parents and relatives noticed. But thinking it from a higher studies and career prospective was when I completed my class 12. I was confused about choosing between Mass Communication and Computer Science. While researching more about these options I came across BCA degree which I thought was perfect for me. This then served to direct my decision to apply for colleges including Handique which was my first choice. I still remember the day when I took admission here, which had to be done online because of the pandemic, but that day was a joyful day for me and my parents and a start of a wonderful 3 years which would stay with me as golden memories in my heart.

My life at Handique was full of new experiences which included studying new things, having friendships of a lifetime, awesome classmates, helpful seniors, good juniors, participating and experiencing various events and especially meeting our teachers who were the backbone for us and always supported us in both studies and outside of that. But the most unexpected part of it would definitely being 1st Class Third under our University. It was pretty shocking for me but nonetheless I felt really happy that I could at least give back something to the department.

I was always an average student since school days. And personally, I do not think I study more than we all do. But I was fortunate to get such great teachers and being in this department played a huge role for this. And most importantly I find interest in what I am studying so I believe if one is interested in the subject then they can do good in that subject. Utilizing all the resources around us and make efforts to study more efficiently.

But after I got into 6th semester there was another hurdle to go through, the entrance exams. Juggling between 6th semester subjects and entrance studies was a pretty tough task. I am sure my juniors can feel that stress right now. But all I can say is that we just have to work a little bit harder than we usually do. And that's what I did or tried my best to do. My target was to get into AEC and I remember those 10 days before my JMEEs where I studied in mornings and evenings where as I am not a person who can study twice in a day. But my efforts gave fruits and when my results came, especially when I got Rank 1 which I never thought I could get, it was one of the happiest moments of my life and also the most relaxed I could be after this long stretch of entrance tensions. And thus, my life at Handique came to a close and my new life at AEC began while being excited to see what the next 2 years of my life will show me.

So, to all my juniors, I know that entrance studies on top of your usual studies may be difficult but this is only going to last for a short while. Work hard, hang in there and crack those entrance exams with the end semester exams.

SHUBHALINA RADU KAKATY

BATCH 2023

A JOURNEY OF GRATITUDE AND GROWTH

Every time I reflect on my journey at Handique Girls' College, I am overwhelmed with gratitude. My time at this institution has been more than just about earning a degree—
it has shaped my identity, strengthened my confidence, and given me the courage to dream beyond limitations. Coming from a humanities background, I never imagined that my path would lead me toward the world of computers.

I joined BCA almost by chance, uncertain of what the future held. But as time passed, I found myself drawn to the field. What started as an unexpected choice gradually turned into a deep passion.

Today, I am pursuing my MCA at Jorhat Engineering College, one of Assam's renowned institutions. This time, it wasn't fate but my own choice that led me here. I am also completing my final-year internship at Orbit Pvt Media, immersing myself in the dynamic and ever-evolving world of technology.

To my juniors —remember, your background does not define your future. It is your perseverance and willingness to learn that will shape your destiny. Handique Girls' College is a place that nurtures growth, and I am forever grateful to have been a part of it.Take on challenges with confidence, embrace every opportunity, and always trust in your potential.

KABYASHREE BORUAH

BATCH 2023

I wasn't sure what path to take after completing my higher secondary education, but one thing I knew for certain is that computer science intrigued me, and I would never tire of it. Hailing from a small town, I had always dreamed of moving out, exploring new opportunities, and experiencing life beyond my comfort zone. Getting admitted to Handique Girls' College felt like the first step toward that dream, a journey of self-exploration, of growth, and of uncovering the person I was meant to become. There, we were free to be bold, free to challenge conventions, and free to embrace our most authentic selves. In this space, societal expectations lost their weight,we existed beyond them, in a realm of our own making. Three years may seem like a fleeting moment in the grand expanse of life, but within those years, I lived a lifetime. More than academic knowledge, Handique Girls' College instilled in me resilience, emotional fortitude, and the courage to stand unwavering in a world that often seeks to confine women within predefined roles. It shaped me not just as a student, but as a woman ready to embrace life on her own terms.

Over time, I explored different opportunities, working as a campus ambassador for TechVariable and as an HR intern at Curiosify. I also became a part of the marketing team at Frint, gaining hands-on experience in the startup world. Currently, I am in my fourth semester of MCA at Cotton University and interning at the National Informatics Centre (NIC). Beyond my academic and professional endeavors, I have also found my passion as a content creator, blending creativity with technology to express and inspire.

Looking back, I see HGC as more than just an educational institution; I see it as a place that transformed me. As I step forward, I do so with the strength of all that I have learned, carrying with me the confidence of the woman I am proud to be.

To my juniors and fellow readers: I may not be the most experienced person, but from what I've learned so far - life is unpredictable, and that's what makes it exciting. Learn through every experience, adapt, grow, and embrace change. Adjust when needed, reform when necessary, and blend in without losing yourself. Have fun, make memories, and keep thriving.

TRISHA SINHA

BATCH 2023

Honestly every single time I try to pen down my thoughts about Handique Girls' College, I turn absolutely clueless, moreover spellbound ... I mean what and what not exactly I could express for this institution! It didn't just give me a marksheet or a degree...It gave me so much more.

Handique shaped me into a stronger, more confident and undoubtedly a better version of myself, way beyond the person I was during my school days. One thing that intrigues me the most is how I ended up loving a course I joined by chance and definitely not by choice... So if someone asks me whether or not I believe in destiny, my answer would be an undeniable yes. I didn't choose this irrevocable college life or this course... It was just destiny that led me here and today after five long years, I couldn't be happier about it...

Handique sparked my interest in the world of computers and every day, this institution inspired me to dream of a career, eventually leading me to pursue a Master's in Computer Applications.

Dear readers, today I am an MCA student at Cotton University. The best part is that this time it wasn't destiny, indeed it was a choice I made... I'm currently completing my final year internship at NIELIT Guwahati and every day I am grateful to be part of this dynamic field...Lastly to my department juniors(sisters), it's never too late to dream something big. You all got an amazing college; a place I proudly call home... Handique Girls college will surely help you all to grow as an individual and achieve all that you have dreamt of. Embrace every phase of your college life and make the most of every opportunity that comes your way.

DIPANNITA PAUL

BATCH 2023

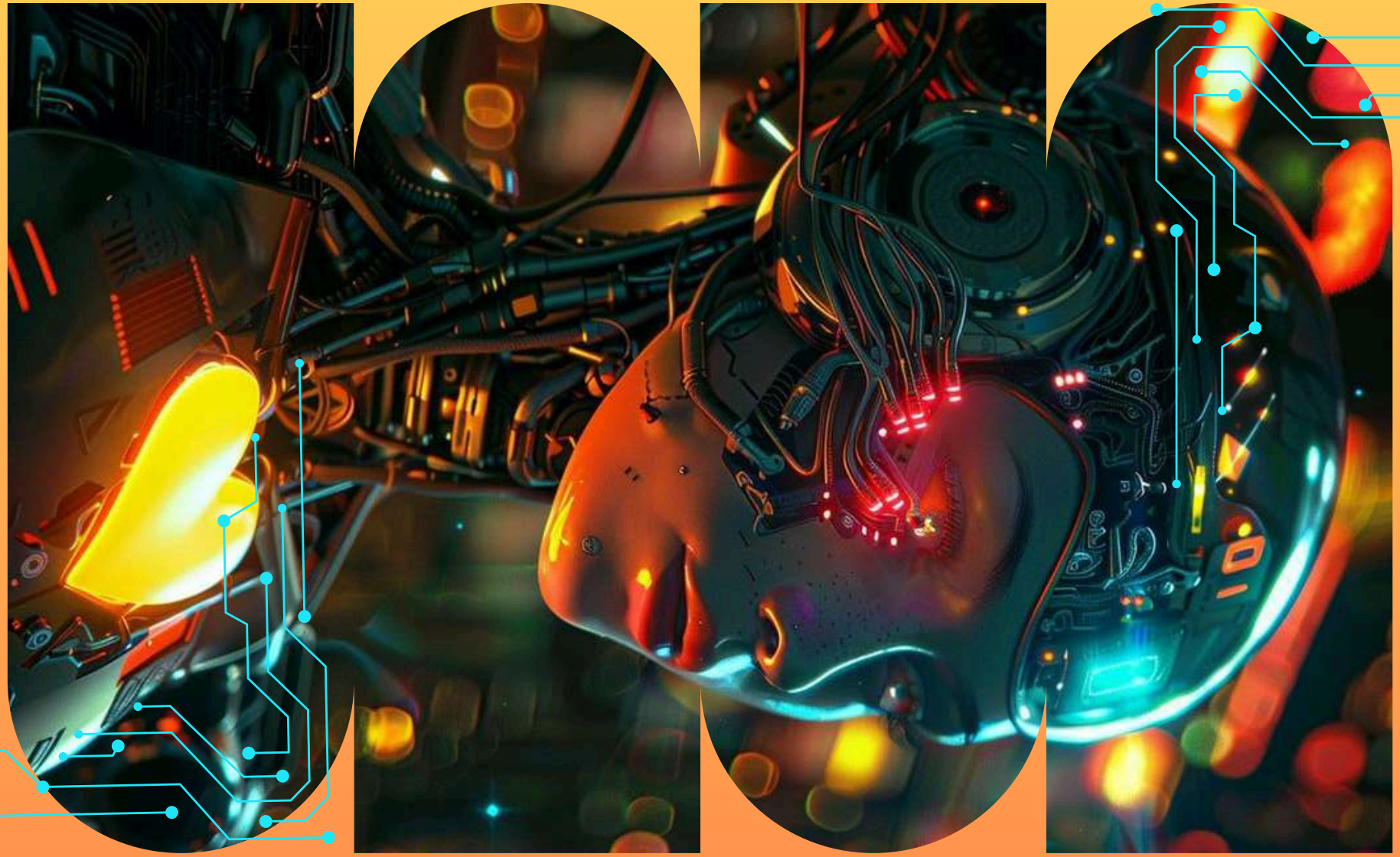
FROM CODING TO CAPTURING MOMENTS:

When I first enrolled in the Bachelor of Computer Applications (BCA) course, I did so with a singular purpose – to dive deep into the world of technology. I've always been a tech enthusiast, and the idea of mastering various coding languages excited me beyond measure. Machines, gadgets, algorithms – they were my passion, and the thought of creating something powerful from lines of code was thrilling. At the time, my goal was clear: pursue an MCA (Master of Computer Applications) and follow that up with an MBA. I envisioned myself working in the tech industry, surrounded by gadgets and systems. But, as often happens in life, things took an unexpected turn. Circumstances forced me to rethink my plans. I wanted to study further, pursue my higher education, and carve a future in technology. However, life had other ideas. The need to stay back, face personal challenges, and take a step back from my original plans became my reality. It was a tough decision, but I understood that sometimes life demands more than what we expect. It was during this phase of introspection that something unexpected began to emerge – my passion for photography. I had always loved photography but had never truly considered it as a career path. I had always enjoyed capturing moments, whether it was a beautiful sunset, a candid shot of friends, or the small details in nature. But it was more of a hobby, something I never took seriously, until now. Gradually, the idea started to take shape. I began learning photography, not from a formal course but from a close friend who was already skilled in the art. Their guidance, coupled with unwavering support from my family and friends, helped me gain confidence. Slowly but surely, my hobby began to turn into a passion I wanted to pursue further.

Making the decision to shift gears wasn't easy. There were mixed reactions from the people around me. Some were supportive, others not so much. But I was confident. I believed in myself and in the power of pursuing what makes you happy, even if it means defying expectations and taking the road less traveled. Throughout my BCA journey, I didn't let go of my newfound love for photography. I kept both worlds intact, balancing coding and photography side by side. My love for technology never waned, but I also found myself spending more time behind the camera, capturing the world around me. It was a delicate balance, but one that worked because both were equally important to me. Now, looking back, I realize that I don't have to choose between technology and photography. The beautiful thing about the world we live in today is that it allows us to blend our passions. I now get to combine my love for machines with my passion for creating art. soul, capturing moments while still surrounded by machines.

Whether I'm coding or capturing a moment through the lens, both aspects of my life complement each other perfectly. Why choose one when you can have both? Photography has allowed me to express myself in ways coding never could, while technology helps me refine and elevate my art. This journey has taught me that life is full of surprises, and sometimes the unexpected paths lead to the most fulfilling destinations.I may have started with coding, but today I am a photographer who embraces the best of both worlds – a tech freak with a creative soul, capturing moments while still surrounded by machines.

ACKNOWLEDGEMENT



A TOKEN OF GRATITUDE

We extend our heartfelt gratitude to everyone who contributed to the successful publication of this e-magazine.

First and foremost, we would like to thank our respected principal, Dr. Ranjit Sarma, for giving us the opportunity to create this e-magazine.

We would like to thank our Head of Department of Computer Science , Dr. Mousmita Devi, alongwith our professors of Computer Science department, namely, Dr. Biren Sarma, Mr. Gautam Kumar Das and Ms. Trishna Smita Datta, for their constant encouragement and support.

We also extend our appreciation to all writers, and contributors for their creativity and effort in making this magazine informative and engaging.

Lastly, we are grateful to our readers and supporters, whose enthusiasm motivates us to continue sharing knowledge and innovation in the field of Computer Science.

Shatabdi Borthakur, Riya Ahmed
6th sem,
Computer Science dept.
Handique Girls' College

THANK YOU !!