

### CAPITAL ENGINEERING COLLEGE

MAHATAPALLA, BAJAPUR, KHORDHA, ODISHA, PIN - 752050

### VISION & MISSION

#### **VISION OF CEC**

To prepare skilled professionals with innovative, ethical, and entrepreneurial spirit.

#### **MISSION OF CEC**

M1: Develop Skilled Professionals– Prepare individuals to excel in evolving global industries through training, hands-on experience, collaboration with industries, and continuous learning.

M2: Promote Innovation- Encourage creative problem-solving through handson research and real-world projects.

M3: Build Ethical Leaders- In still integrity, inclusivity, and a commitment to social responsibility in all students.

M4: Inculcate Entrepreneurial Spirit-Prepare individuals into leaders and entrepreneurs for creating and managing companies.

### VISSION OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DIPLOMA)

To develop innovative and ethical professionals equipped with skills to excel in technology-driven industries.

### MISSION OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DIPLOMA)

M1: Enhance Technical Competency- Create facilities for conceptual learning, hands-on project and continuous learning.

M2: Foster Innovation in Computing-Encourage creativity and innovation by engaging students in research, collaborative projects, and emerging technologies that address real-world challenges.

M3: Promote Ethical and Inclusive Computing Practices- Develop socially responsible computer scientists by instilling integrity, inclusivity, and a commitment to ethical practices in all aspects of computing.

### **EDITORIAL BOARD COMMITTEE**

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### MESSAGE FROM THE HEAD OF DEPARTMENT (CSE)

Dear Readers,

It is with great pride and enthusiasm that I present this year's edition of our **CSE Department Magazine**. This magazine is a testament to the dedication, creativity, and technical excellence of our students and faculty, serving as a platform to showcase their achievements, research contributions, and innovative ideas.

The field of **Computer Science and Engineering** is evolving at an unprecedented pace, with cutting-edge advancements in **Artificial Intelligence**, **Cybersecurity**, **Blockchain**, **Cloud Computing**, **and the Internet of Things** reshaping industries and the way we live. In this digital era, staying ahead requires a blend of strong technical skills, problem-solving abilities, and a continuous thirst for knowledge. Our department is committed to fostering an environment of academic excellence, research, and hands-on learning to prepare our students for the challenges of the future.

Through industry collaborations, skill development programs, and research initiatives, we strive to equip our students with the necessary tools to succeed in today's fast-paced technological landscape. This magazine reflects these efforts, highlighting emerging trends, innovative student projects, faculty research, and industry insights. It is a platform for knowledge-sharing, critical thinking, and inspiration.

I extend my heartfelt gratitude to the **editorial team, faculty members, and students** who have put in tremendous effort to make this publication a success. Your hard work and passion for technology are truly commendable. I encourage all readers to engage with the content, explore new ideas, and continue striving for excellence in the field of Computer Science and Engineering.

Let's keep learning, innovating, and shaping the digital future together!

ITUN SARANGI
Head of Department
Computer Science and Engineering

#### CHIEF EDITOR'S MESSAGE

Dear Readers,

It is a privilege to present this year's edition of the **CSE Department Magazine**. This publication is a testament to the dedication, creativity, and technical expertise of our students and faculty. It brings together insightful articles, research explorations, and technological innovations that reflect the ever-changing landscape of **Computer Science and Engineering**.

The world is witnessing rapid advancements in **Artificial Intelligence**, **Cloud Computing**, **Data Science**, **and Cybersecurity**. To stay ahead, we must embrace continuous learning and innovation. This magazine serves as a platform to share ideas, celebrate achievements, and inspire the next generation of tech leaders.

I extend my heartfelt gratitude to all the contributors, faculty members, and editorial team members who worked tirelessly to make this edition a success. May this magazine ignite curiosity, encourage learning, and push the boundaries of technological exploration.

Happy reading!

SIPRA MOHANTY Chief Editor CSE Department Magazine

#### EDITOR'S NOTE

Dear Readers,

Welcome to another exciting edition of the **CSE Department Magazine**! This publication is a showcase of the talent, knowledge, and innovation that defines our department. Each article and project featured here reflects the commitment of our students and faculty to pushing the boundaries of technology.

With Artificial Intelligence, Machine Learning, Cybersecurity, and Blockchain shaping the future, it is essential to stay informed and engaged. This magazine serves as a knowledge hub, offering insights into emerging trends and ground-breaking research within our field.

I would like to extend my sincere appreciation to all contributors and the editorial team for their dedication in bringing this magazine to life. I hope it inspires you to think, explore, and innovate in the ever-evolving world of technology.

Happy reading!

ARPITA PRIYADARSHINI
Editor
CSE Department Magazine





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# FACULTY ARTICLE

#### EDGE COMPUTING: FASTER AND SMARTER TECHNOLOGY

BY ITUN SARANGI

#### Introduction

Have you ever used a voice assistant like Alexa or Google Assistant? When you ask a question, it responds quickly. But what if it had to send your question to a faraway server before answering? That would take too long!

This is where Edge Computing comes in. It processes data closer to where it is needed, making things faster, safer, and more efficient.

#### What is Edge Computing?

Edge computing means doing the computing near the device instead of sending it to a cloud server. This helps devices work in real-time.

Example: A self-driving car quickly detects people, other cars, and traffic signals. It can't wait for a cloud server to decide—it must act instantly to avoid accidents!

Example: A smart home camera detects movement and decides immediately if it's a pet or a stranger—without needing to send video data to the internet.



Why is Edge Computing Important?

Faster Response Time – No need to wait for cloud processing.

Less Internet Use – Reduces the amount of data sent over the internet.

More Security – Data stays on the device instead of being sent online.

Better for Smart Devices – Helps AI and IoT devices work smoothly.

How Does Edge Computing Affect Computer Science?

For Computer Science students and professionals, edge computing is a big opportunity! It is useful in:

- AI & Smart Devices Running AI directly on phones, cameras, and sensors.
- Internet of Things (IoT) Making smart devices like watches, TVs, and cars work better.
- Cybersecurity Protecting devices from hackers and data theft.
- 5G & Faster Networks Helping the internet work at super-fast speeds.

#### Challenges of Edge Computing

Managing Many Devices – Thousands of devices need to work together.

Security Risks – More devices mean more chances for hackers to attack.

Limited Power – Small devices must do powerful computing without using too much energy. But with better chips, AI, and security improvements, these problems are being solved!

#### Conclusion: The Future of Edge Computing

Edge computing is changing technology. Instead of relying only on cloud servers, devices can now think and act on their own. This makes everything faster, safer, and smarter.

### HACKED! THE DARK SIDE OF THE DIGITAL WORLD

#### BY RUTUPARNA PADHI

Today, we live in a world where everything is connected through the internet. While technology has made life easier, it has also created dangers. One of the biggest dangers is hacking. The word "hacked" can scare both individuals and big companies. Cybercriminals are always looking for ways to break into systems, steal data, and cause damage.

#### What is Hacking?

Hacking means breaking into computers, phones, or networks without permission. Some hackers do it for fun, but many do it to steal money, personal information, or even to cause harm. Cybercrime is growing every day, making the online world a risky place.

In recent years, there have been many dangerous cyberattacks. For example, in 2017, the Equifax data breach exposed the personal details of 147 million people. The WannaCry ransomware attack locked computers in 150 countries and demanded money to unlock them. These attacks show that no one is truly safe online.



#### Types of Hacking

Hacking is not just about stealing passwords. Here are some common types of cyberattacks:

**Phishing** – Fake emails or messages that trick people into sharing personal details.

**Ransomware** – A virus that locks files and demands money to unlock them.

**Identity Theft** – Stealing personal information to pretend to be someone else.

**DDoS Attacks** – Flooding a website with too much traffic to make it stop working.

**IoT Attacks** – Hacking smart devices like home security cameras or speakers.

#### Who is at Risk?

The simple answer is: everyone. Whether you are an individual, a small business, or a big company, hackers can target you. People who use weak passwords, ignore security updates, or click on suspicious links are at a higher risk. Even hospitals, banks, and government offices have been attacked.

How to Stay Safe Online

Cybercrime is scary, but there are ways to protect yourself:

**Use Strong Passwords** – Avoid easy passwords like "123456" or "password." Use different passwords for different accounts.

Turn on Two-Factor Authentication (2FA) – This adds extra security to your accounts.

**Be Careful with Emails and Links** – Do not click on unknown links or emails that seem suspicious.

**Keep Your Software Updated** – Updates fix security issues that hackers might use.

**Back Up Important Data** – Save copies of important files to avoid losing them.

The Future of Cybersecurity

As technology grows, hackers are finding new ways to attack. But at the same time, security experts are working hard to stop them. Governments and companies are spending more money on cybersecurity, but personal awareness is just as important.

In today's world, staying alert is the best defense. The internet is a great tool, but it can also be dangerous. By learning about cyber threats and taking simple steps to stay safe, you can protect yourself from getting HACKED!

# TECH AGAINST FAKE NEWS: HOW TECHNOLOGY IS STOPPING LIES ONLINE

#### BY ARPITA PRIYADARSHINI

Fake news is a big problem today. With social media and the internet, false information spreads very fast. It can confuse people, create fear, and even change elections. But technology is helping to stop fake news. From smart computers to fact-checking websites, tech is making a big difference. What is Fake News?

Fake news is false or misleading information that is shared with others. It comes in different forms, such as:

**Clickbait** – Catchy headlines that make people click but are often not true.

**Deepfakes** – Videos changed by computers to show people doing things they never did.

**Misinformation** – False information shared by mistake.

**Disinformation** – False information shared on purpose to trick people.

Fake news spreads fast because people often share news without checking if it is true. Social media makes it easy for fake news to go viral.

How Technology Helps Stop Fake News

Technology is one of the best ways to fight fake news. Here are some ways it helps:

#### 1. Smart Computers (Artificial Intelligence - AI)

AI can scan articles and posts to find fake news. It compares news with trusted sources and can warn users if something is false.

#### 2. Fact-Checking Websites and Tools

There are many websites that check if news is real. Some examples are Snopes, FactCheck.org, and Google Fact Check. Some web browsers and apps also have tools that warn users about fake news.

#### 3. Blockchain Technology

Blockchain helps track where news comes from. This makes it easier to see if a story is real or fake.

#### 4. Social Media Actions

Social media companies like Facebook, Twitter, and YouTube use special programs to find and remove fake news. They also work with fact-checkers to stop false information from spreading.

#### 5. Teaching People to Spot Fake News

Apps and websites now offer lessons on how to check if news is real. They teach people to look at sources and think before sharing information.



The Future of Fighting Fake News

As fake news gets more advanced, technology must improve too. AI is getting better at spotting fake stories, and new tools are being made to help people check information quickly. Governments and tech companies are also making rules to stop fake news.

In today's digital world, knowledge is power. Technology is helping, but people must also be careful. Always check sources, think before sharing, and stay informed. With smart tools and responsible users, we can win the fight against fake news.

# THE LAST HUMAN CODER: WILL AI REPLACE PROGRAMMERS?

BY SIPRA MOHANTY

Technology is growing fast. Today, artificial intelligence (AI) can write code, fix mistakes, and even create full programs. This makes people wonder: Will humans stop coding one day? Will machines take over? The idea of "The Last Human Coder" is both exciting and scary.

#### How AI is Changing Coding

AI tools like GitHub Copilot and ChatGPT help programmers by suggesting code and fixing errors. Companies use AI to make coding faster and easier. AI can study millions of lines of code and learn from them, something no human can do so quickly.

#### Will AI Replace Human Coders?

AI is smart, but it still has problems. It does not think like a human. It cannot be creative or understand complex ideas deeply. AI can write code, but humans must check if the code is correct and useful. Even the best AI makes mistakes that only humans can fix.

Still, AI is improving. In the future, AI may do simple coding jobs, like building websites or fixing bugs. But for difficult projects, human coders will still be needed.

#### The Future of Coding

Instead of replacing programmers, AI will likely become their partner. In the future, humans may not write every line of code. Instead, they will guide AI to build software. Coding may change from typing code to managing AI tools.



#### The Last Human Coder

If AI someday becomes smart enough to code everything, the last human coder may be the person who creates that AI. This person would mark the end of human-led coding and the start of AI-led development.

But will AI truly take over? Many experts believe humans will always be needed. People bring creativity, new ideas, and moral thinking that AI cannot. The future of coding is not about humans vs. AI—it is about humans and AI working together to build amazing things.

The last human coder may not be the end of programming. Instead, it could be the start of a new way to create technology.

# STUDENT ARTICLE

### THE OPEN-SOURCE HEROES: THE PEOPLE BEHIND FREE SOFTWARE

BY Bijurupa Majhi

Every time you use a web browser like Firefox, search with Wikipedia, or install Linux, you are benefiting from open-source software. But have you ever wondered who creates and maintains these free tools? These are the open-source heroes—developers, designers, and volunteers who work together to make software available to everyone.

What is Open-Source Software?

Open-source software is software that anyone can see, use, change, and share. Unlike paid software, which is controlled by a company, open-source software is built by a community. Some famous open-source projects include:

**Linux** – A free operating system used in servers, phones, and even space missions.

**Firefox** – A web browser that values privacy and security.

**WordPress** – A platform that powers millions of websites.

**Android** – A mobile operating system based on open-source code.

Who Are the Open-Source Heroes?

Open-source heroes are the people who create and improve these tools. They come from different backgrounds—students, professional programmers, hobbyists, and even big companies. Some work full-time on open-source projects, while others contribute in their free time.

#### 1. Developers

These are the programmers who write the code. They fix bugs, add new features, and keep the software running smoothly.

#### 2. Designers

Good software is not just about code. Designers make sure that open-source tools look good and are easy to use.

#### 3. Testers

Before new features are released, testers check if everything works correctly. They help find errors and improve software quality.

#### 4. Writers and Educators

Documentation writers create guides and tutorials so that anyone can learn how to use open-source software. Educators help spread knowledge about these tools.

#### 5. Community Supporters

Many open-source projects have online communities. People help answer questions, suggest improvements, and encourage new contributors.

#### Why Open-Source Matters

Open-source software is important because:

It is free – Anyone can use it without paying.

It is secure – Many people check the code, making it harder for hackers to hide harmful programs. It gives freedom – Users can modify the software to fit their needs.

It builds a community – People around the world work together, sharing knowledge and skills.

#### The Future of Open-Source

As technology grows, open-source software is becoming more powerful. Big companies like Google, Microsoft, and IBM now support open-source projects. More schools and universities are teaching open-source development.

Open-source heroes continue to shape the digital world. Their work makes technology more open, fair, and accessible to everyone. Whether you are a programmer, designer, or just a user, you can be part of this movement. The world of open-source is waiting for its next hero—could it be you?



### METAVERSE UNIVERSITY: THE FUTURE OF LEARNING

BY Raju Singh

Education is changing, and the next big step is the Metaverse University. Imagine a world where students attend classes in a 3D virtual space, interact with teachers and classmates through avatars, and explore digital campuses from anywhere in the world. The Metaverse University is bringing this vision to life.

What is the Metaverse University?

The Metaverse University is an online learning platform inside the metaverse. Instead of using regular video calls or websites, students enter a digital world using virtual reality (VR) headsets, augmented reality (AR) devices, or computers. In this space, they can:

Attend lectures in virtual classrooms

Perform science experiments in 3D labs

Visit historical places through virtual tours

Work on group projects with students from different countries

Benefits of the Metaverse University

The Metaverse University offers many advantages:

#### 1. Interactive Learning

Instead of just reading books or watching videos, students can experience lessons. For example, medical students can practice surgery on virtual patients, and history students can visit ancient civilizations.

#### 2. Global Access

Students from anywhere in the world can attend top universities without traveling. This makes education more inclusive and affordable.

#### 3. Personalized Education

With artificial intelligence (AI), lessons can be customized for each student. They can learn at their own pace and get instant feedback.

#### 4. Real-World Skills

Students can use virtual reality to develop real-world skills, like engineering, programming, and business management, in a practical way.



Challenges of the Metaverse University

While the Metaverse University sounds exciting, there are some challenges:

**Expensive Technology** – VR headsets and high-speed internet are needed, which may not be affordable for everyone.

**Digital Safety** – Protecting students from cyber threats and online distractions is important.

**Adaptation** – Teachers and students need training to use this new technology effectively.

#### The Future of Education

The Metaverse University is not just an idea; many universities and tech companies are already working on it. As technology improves, more students will be able to experience this futuristic way of learning.

### THE FUTURE OF ARTIFICIAL GENERAL INTELLIGENCE (AGI)

BY Chandini Nayak

Artificial Intelligence (AI) is changing the world. But a bigger change is coming—Artificial General Intelligence (AGI). Today's AI can do specific tasks, like recognizing voices or playing games. AGI will be different. It will think, learn, and solve problems like humans. What will happen when machines become as smart as people?

What is AGI?

AGI is an advanced AI that can understand, learn, and apply knowledge in different areas. Unlike today's AI, which is designed for one task, AGI will work in many fields. It will reason, adapt, and make decisions like a human brain.

How AGI Can Help

AGI can change many industries, including:

**Healthcare** – It can find diseases, create medicines, and even do surgeries.

**Education** – It can help students learn in a way that suits them best.

**Science** – It can help in making new discoveries.

Work – AGI can do jobs faster and more efficiently.



The Problems with AGI

AGI is powerful, but it also has risks:

**Job Loss** – Machines may replace human workers.

Ethical Issues – Should AGI have rights? Who controls it?

**Security Risks** – It could be used for cyber-attacks.

Loss of Control - If AGI becomes too advanced, humans may struggle to manage it.

When Will AGI Arrive?

Scientists believe AGI is still many years away. Experts at OpenAI, Google, and DeepMind are working on it. But there is much more to learn before AGI becomes real.

Conclusion

AGI will change our world. It can solve big problems if used correctly. But it must be safe and helpful for everyone. The future of AGI is exciting, but we must be careful.

# CYBER WARFARE: NATION-STATE ATTACKS AND DIGITAL BATTLEFIELDS

BY Aditya P Pattanaik

Today, wars are not only fought with weapons and soldiers. Countries now fight in the digital world. They use cyberattacks to spy, steal data, and disrupt systems. This is called cyber warfare, and it is a growing threat. Cyber warfare can cause just as much damage as traditional warfare, affecting millions of people without a single bullet being fired.

What is Cyber Warfare?

Cyber warfare happens when countries use hacking and digital attacks against each other. Instead of bombs and guns, they use viruses, malware, and hacking tools. These attacks can harm governments, businesses, and people. Some attacks can shut down entire cities, causing panic and economic losses.

Countries use different types of cyberattacks, such as:

**Espionage** – Spying on other countries to steal secrets.

**Disrupting Infrastructure** – Attacking power grids, water systems, and hospitals.

**Misinformation** – Spreading fake news to influence people.

**Stealing Money** – Hacking banks to fund operations.

Ransomware Attacks – Locking important files and demanding payment to unlock them.



#### Real-World Cyber Attacks

Many cyberattacks have happened around the world. Some examples are:

Stuxnet (2010) – A virus that damaged Iran's nuclear program.

NotPetya (2017) – A Russian cyberattack that shut down businesses.

**SolarWinds Hack (2020)** – A cyberattack on the U.S. government and companies.

**Colonial Pipeline Attack (2021)** – A ransomware attack that disrupted fuel supplies in the U.S.

How to Defend Against Cyber Warfare

Countries are now building strong cyber defenses. Some key strategies include:

Better Cybersecurity – Governments and companies invest in security systems.

**Cyber Armies** – Special teams are trained to fight cyber threats.

**International Cooperation** – Countries work together to stop cybercriminals.

**Public Awareness** – Teaching people how to stay safe online.

**AI-Powered Security** – Using artificial intelligence to detect and stop attacks faster.

The Future of Cyber Warfare

Cyber warfare will increase in the future. As technology improves, attacks will become more advanced. Nations must work together to stop cyber conflicts and protect the digital world. Future wars may be won or lost in cyberspace, making strong digital defenses more important than ever.

# FROM A VILLAGE TO SILICON VALLEY: A JOURNEY OF INNOVATION AND HARD WORK

BY Arpita Singh

Success stories often begin in the most unexpected places. Many of the brightest minds in the tech industry started their journeys in small villages, far away from the modern cities of innovation. With determination, education, and a vision for the future, they made their way to Silicon Valley—the global center of technology and entrepreneurship.

#### The Power of Dreams

In many villages, resources are limited, and opportunities can be scarce. However, those with big dreams and a passion for technology find ways to overcome challenges. The journey often begins with access to the internet, a second-hand computer, or even a book about programming.

#### Education: The Key to Growth

For many, education plays a crucial role in their journey to success. Some study in local schools before securing scholarships for higher education. Others learn coding through online courses, proving that knowledge has no boundaries. Many successful engineers and entrepreneurs from small towns have pursued higher studies in top universities, which became a gateway to Silicon Valley.



#### The Road to Silicon Valley

Getting into Silicon Valley is not easy. It requires hard work, creativity, and persistence. Some start by working for tech companies in their home country, gaining experience before applying for jobs in the U.S. Others create startups, build innovative products, and attract investors who bring them to the global stage.

#### Stories of Inspiration

There are many real-life examples of individuals who have made this journey. Tech leaders like Sundar Pichai (CEO of Google) and Satya Nadella (CEO of Microsoft) grew up in humble backgrounds before becoming global innovators. Their stories prove that talent and hard work can break all barriers.

#### Challenges and Success

The journey from a small village to Silicon Valley is filled with obstacles—financial struggles, cultural differences, and visa challenges. However, those who stay determined and continue learning find success. Silicon Valley values innovation, and it welcomes talent from all parts of the world.

#### Conclusion

The journey from a village to Silicon Valley is not just about moving from one place to another. It is about growth, learning, and the power of dreams. With technology making the world more connected, anyone with passion and dedication can achieve success, no matter where they come from.

# THE CODE THAT WRITES ITSELF: THE FUTURE OF AI IN PROGRAMMING

BY Aditya Nayak

For centuries, humans have written code to power machines. But what if the code could write itself? This idea, once a fantasy, is now becoming a reality with the rise of Artificial Intelligence (AI). AI-powered programming tools are transforming the way software is created, making coding faster, easier, and more efficient.

#### The Birth of Self-Writing Code

Technology has always aimed to simplify human effort. Early programmers had to write thousands of lines of code manually. Today, AI tools like GitHub Copilot, OpenAI Codex, and ChatGPT can generate code from simple text instructions. These tools understand human language and convert it into working programs, reducing the time needed to develop software.

How Does It Work?



Self-writing code uses machine learning models trained on vast amounts of existing code. When a developer provides an instruction, the AI suggests or writes the necessary code. It can fix errors, optimize performance, and even predict what the programmer needs next. This makes coding accessible to more people, even those with little experience in programming.

#### The Impact on Developers

Some fear that AI may replace human programmers, but the reality is different. Instead of taking jobs away, AI helps developers work more efficiently. It reduces repetitive tasks, allowing programmers to focus on creative problem-solving. With AI assistance, developers can build complex applications faster and with fewer mistakes.

#### Challenges and Risks

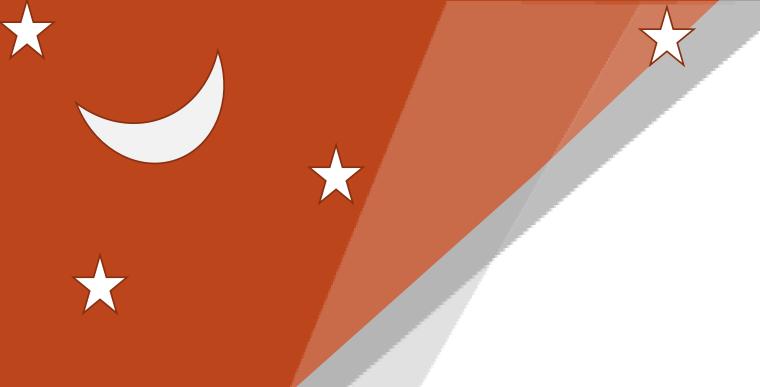
While self-writing code is promising, it is not perfect. AI can sometimes generate incorrect or insecure code. It also relies on existing data, which means it may repeat past mistakes. Developers must carefully review AI-generated code to ensure quality and security. Ethical concerns, such as AI replacing human decision-making, also need to be addressed.

#### The Future of AI in Coding

The future of self-writing code is exciting. AI will continue to improve, learning from more examples and becoming better at understanding human intent. We may soon see AI-powered tools that can build entire applications with minimal human input. However, human creativity and problem-solving will always remain essential in software development.

#### Conclusion

Self-writing code is changing the way we think about programming. AI is not here to replace developers but to assist them in writing better software. As technology evolves, the collaboration between humans and AI will shape the future of coding, making it more accessible and powerful than ever before.



# **STORIES**

### WHEN YOUR MOM BECOMES THE TEACHER

BY Ranjita Panda

Abhijit never thought his mother would become his teacher. He always believed that learning happened in school, with blackboards, books, and classmates. But everything changed when his school shut down unexpectedly, and learning had to continue at home. His new classroom? The dining table. His new teacher? His mom.

At first, Abhijit found it strange. His mother, who used to remind him to do homework, was now explaining math problems and science experiments. She created a daily schedule, just like in school, and made sure he followed it.

"Mom, this is too much! You're stricter than my teacher!" he complained one day.

His mom smiled. "That's because I want you to learn well," she said.

As days passed, Abhijit started noticing something different. His mom was not just a teacher; she was a guide, a motivator, and sometimes, even a classmate. She turned boring history lessons into fun stories and helped him understand math using real-life examples. When he struggled, she patiently explained, never giving up on him.

One day, Abhijit was frustrated with a difficult science experiment. "I can't do this, Mom!" he said, ready to give up.

His mother placed a reassuring hand on his shoulder. "Learning is not about getting everything right at once. It's about trying again until you understand," she said.

That moment changed everything. Abhijit realized that learning with his mom was special. She wasn't just teaching him subjects—she was teaching him patience, confidence, and the importance of never giving up.

By the time schools reopened, Abhijit felt more prepared than ever. He had not only learned school subjects but also valuable life lessons. He looked at his mom with newfound respect.

"Thank you for being my teacher," he said one evening.

His mom smiled. "I'll always be your teacher, no matter how old you get."

Abhijit realized something important—teachers can be found anywhere, and sometimes, the best teacher is the one who has been with you all along.

### THE VIRTUAL PRISON

#### BY Sisir Kumar Sahoo

Rohan always thought technology was a gift. With just a click, he could talk to his friends, watch his favourite shows, and explore new worlds in video games. But what he never realized was that, slowly, he was becoming a prisoner of the digital world.

It started harmlessly. A few extra minutes on social media, one more episode of a web series, and just one last game before bed. Those minutes turned into hours, and soon, Rohan found himself unable to stay away from his screens. He stopped playing outside, ignored his family at dinner, and even lost interest in his studies. His world existed only inside his phone and computer.

One evening, his mother called him for dinner. "Rohan, come eat with us."

"Just five more minutes, Mom!" he replied, his eyes fixed on the flashing screen.

Those five minutes turned into an hour. Days turned into weeks. He started missing deadlines, lost sleep, and felt constantly tired. He was trapped—not in a real jail, but in a prison built by his own habits.

Then one day, his internet stopped working due to a power outage. Frustrated, he paced around his room, feeling lost. For the first time in months, he looked outside his window. Children were playing in the park, laughing and running. His younger sister was drawing in her notebook. His parents were having tea and chatting. The real world was still there, waiting for him.

Something clicked in his mind. He stepped outside and joined his sister. They laughed together as he helped her colour a picture. The next day, he dusted off his old bicycle and went for a ride. It felt strange at first, but soon, he felt free.

Rohan realized that technology was a tool, not a cage. He started setting limits on his screen time, spending more time with his family, and reconnecting with the real world. The virtual prison he had built around himself slowly disappeared.

Now, he still used technology, but he was no longer its prisoner. He had escaped—not from a digital world, but from a habit that had controlled him for too long.



# HACKATHON CHAMPIONS: THE POWER OF INNOVATION AND TEAMWORK

#### BY Namita Lakra

It was the biggest coding event of the year. Teams from across the country had gathered for the 48-hour hackathon, where the brightest minds would compete to build something extraordinary. Among them was Team Code Quest—a group of four college friends with big dreams but little experience.

From the moment the timer started, the competition was intense. Teams were brainstorming, typing furiously, and debugging non-stop. Code Quest had an ambitious idea: a smart app that could detect fake news using AI. But as the hours passed, they ran into problems—bugs in the code, missing data, and exhaustion setting in.

"Maybe we should just go with a simpler idea," Ravi, the team's coder, sighed.

But Ananya, their team leader, refused to give up. "We came here to challenge ourselves. Let's find a way."

With renewed energy, they divided tasks, supported each other, and pushed through. At 3 AM, their breakthrough came. The algorithm worked! The app could analyze news articles and flag misleading content. Excited but exhausted, they fine-tuned it until the final minute.

The moment of judgment arrived. As they presented their project, the audience and judges were amazed. The panel asked tough questions, but the team had answers. When the winners were announced, the name **Team Code Quest** echoed in the hall. They had won!

The victory wasn't just about the prize—it was about proving that determination, teamwork, and belief in an idea could turn dreams into reality. They had entered as students but left as champions, ready to take on the world of innovation.



#### THE DEADLINE DISASTER

#### BY Tusar Pujhari

It was 11:50 PM, and Rahul's heart was racing. The deadline for his assignment submission was midnight, and he had just finished typing the last sentence. With a victorious grin, he clicked 'Upload.'

Nothing happened.

Panic set in. He clicked again. Still nothing. The loading wheel on his screen spun endlessly. "No, no, no! Not now!" he muttered, shaking his laptop as if that would magically fix the issue.

He checked the Wi-Fi. The signal was gone. Of all the times for the internet to betray him, this was the worst. He grabbed his phone, hoping to use mobile data, but fate had other plans—his battery was at 2%. "You have got to be kidding me!" he groaned.

Thinking fast, he sprinted to his roommate, Akash, who was peacefully enjoying a late-night snack. "Dude, I need your hotspot! My assignment won't upload!"

Akash raised an eyebrow. "You waited till the last minute, didn't you?"

"Not the time for lectures! Just give me the Wi-Fi!"

With 5 minutes left, Rahul connected to the hotspot and tried uploading again. The progress bar crawled forward—10%, 25%, 50%. His palms were sweaty. "Come on, come on!" he whispered like a prayer.

At 11:59 PM, the upload reached 99%... and froze. Rahul's soul nearly left his body. He stared at the screen, helpless. Then, with a second to spare, the file uploaded. "Submission successful!" flashed on the screen.

Rahul collapsed onto his chair, exhausted but victorious. Akash patted his shoulder. "Another deadline disaster survived. Let's celebrate with some noodles."

And that was how Rahul learned an important college lesson: never trust the Wi-Fi, and never leave assignments until the last minute.





#### THE BOND OF CSE

BY Sibuna Das

We are the CSE squad, bold and bright, In this world of code, we shine so right!

From lectures to labs, we stand as one, Coding together, having all the fun!

One big team, like circuits linked, Through every bug, our minds are synced!

Hackathons, projects, and sleepless nights, Debugging errors, chasing new heights!

No fear of errors, no fear of fail, With friends around, we always prevail!

This department is our second home, A family where we never feel alone!

As CSE warriors, we'll rise so high, Reaching new peaks, touching the sky!

Through every challenge, through every race, We move ahead with power and grace!



#### THE RISE OF AI

#### BY Itishree Mahapatra

In circuits deep and data streams,
A silent mind begins to dream.
From lines of code, a spark ignites,
A world transformed by digital lights.

Neurons fire in silicon veins, Learning patterns, breaking chains. Through loops and layers, numbers flow, A thinking machine begins to grow.

It sees, it speaks, it learns each day, Guiding humans on their way. From chatbots wise to cars that steer, The age of AI draws ever near.

But in this rise, a question stays, Will we control or lose our way? For power vast in hands so small, Can lift us high—or watch us fall.

Yet hand in hand, if we unite,
Man and machine, both burning bright.
Together shaping what's to be,
A future built by you and me



### ରୋବୋଟ ଜୁଗ (ROBOT ERA)

BY Rupali Das

ଏକ ନୂଆ ଯୁଗ ଆସିଲା, ଲୋହାର ମନେ ଚିନ୍ତା କଲା। ମଣିଷ ଏବେ ବିଶ୍ରାମ ନେଇ, ରୋବୋଟ ଦିନ ରାତି କାମ କଲା।

ସିପିୟୁ ଭିତରେ ବୁଦ୍ଧି ରହେ, ଏମେମୋରି ରେ ଜ୍ଞାନ । ପ୍ରୋଗ୍ରାମ ଲେଖି ଦେଲେ ଯଦି, ସେ କରିଦେଇ ପ୍ରଯାନ ।

କେଉଁଠି ଆବେଗ, କେଉଁଠି ହାସ, କେବଳ କାର୍ଯ୍ୟ ଏ ତା'ର ଭାଷ। ନ ଥାଏ ଥକା, ନ ଥାଏ ଅଳସ, ସବୁ କାମକୁ କରେ ସଫଳତାର ଉଲ୍ଲାସ।

ଗ୍ରହେ ଚାଲିବ, ଅଭିଜାନ କରିବ, ମଣିଷଙ୍କ ସହଯୋଗୀ ହେବ। ମାନବ ଏବେ ଚିନ୍ତା କରେ, ଏହି ଭବିଷ୍ୟତ କ'ଣ ନେଇଯିବେ?

ରୋବୋଟ ବଞ୍ଚିବ କି ମଣିଷ, ନା ସହଯୋଗରେ ହେବ ସଛି? ଏହି ନୂତନ ଯୁଗ ଏମିତି ଅଛି, ଯେଉଁଠି ମଣିଷ ଏବେ ବିବେକୀ ରହିବ।



