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HI-TECH



**DEPARTMENT OF
COMPUTER SCIENCE &
ENGINEERING**

*Brilliant minds not only
brainstorm but also
sharpen creativity*

2025 AUGUST EDITION

MESSAGE FROM MENTOR'S DESK



It gives me great joy to welcome you all to the latest edition of our CSE departmental magazine! This magazine continues to be a wonderful platform for our students, faculty, and alumni to express their ideas, creativity, and achievements. It reflects not only our technical growth but also the thoughts, emotions, and social awareness of our vibrant community.

I want to sincerely thank everyone who contributed to this edition—your efforts and enthusiasm have added great value to every page. Special thanks to our Head of the Department for his constant support, and to the editorial team for their dedication in bringing this edition together so beautifully. To all our readers—thank you for being a part of this journey. We hope this edition inspires you, informs you, and brings you a sense of connection within our ever-growing CSE family.

Happy reading and best wishes to all!

Warm Regards

JHALAK DUTTA
ASSISTANT PROFESSOR



MESSAGE FROM MENTOR'S DESK



This edition celebrates the powerful convergence of technology and humanity.

From cutting-edge innovations like disaster-response AI to thoughtful explorations of deepfakes, decision trees, and e-commerce—interwoven with poignant poetry and striking photography—it spans a truly diverse spectrum. !

Travelogues and personal reflections blend memory with code, reminding us that even machines have stories worth telling. The innovation and achievements sections showcase the remarkable accomplishments of our students, standing as a testament to the department's dynamic spirit. As you turn the pages of this magazine, we hope you enjoy this vibrant mix of creativity and intellect.

Happy reading!

Warm Regards



RESHMA ROYCHOUDHURI
ASSISTANT PROFESSOR

WHAT'S INSIDE

1	Bytes and Beyond	<u>05</u>
2	Pages of Perspective	<u>21</u>
3	Lens and Light	<u>37</u>
4	Word Weaver	<u>42</u>
5	Colour Conversations	<u>60</u>
6	Inside Scope	<u>64</u>
7	Victory Vault	<u>68</u>
8	Student Innovation	<u>73</u>
9	Meet The Editorial Team	<u>86</u>
10	The End—Thank You!	<u>89</u>

Table of Contents



BYTES AND BEYOND

The AI Dilemma: Blessing or Curse?

Abhishek Kumar Raunak, 3rd Year

We All Know the Good Side of AI... But What About the Curse?

We all talk about how AI is changing our lives for the better. It helps us write, code, search, and even create art in seconds. But while we're busy enjoying the magic, there's a side of AI we rarely talk about — the hidden costs and dangers.

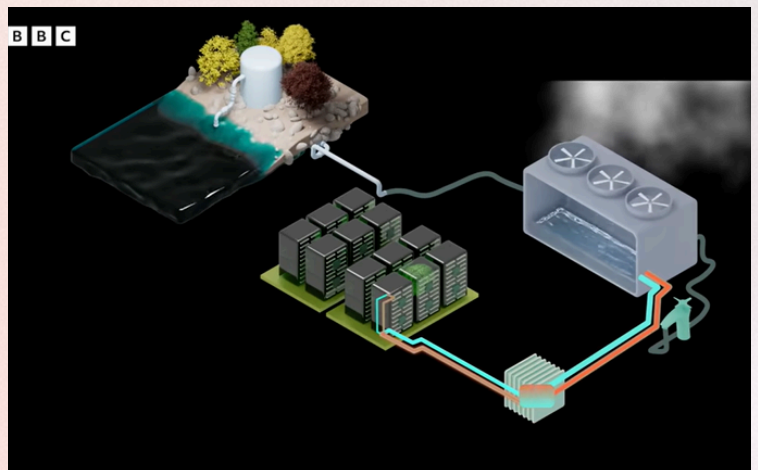
1. How AI Is Thirsty

Every time we type a prompt into AI tools like ChatGPT or Copilot, we don't see what's happening in the background. The truth is — AI is incredibly thirsty.

Let's go through the very shocking fact
Every single prompt you type in ChatGPT uses roughly **one-fifth of a spoon of water to keep the servers cool**. Now imagine—there are billions of prompts every month, not just on ChatGPT but also on Copilot, Perplexity, and many other AI tools. The water usage adds up to an unimaginable level.

Experts say that by 2030, data centers running AI could use as much electricity in a year as the whole of the UK uses today. That's a massive amount of energy.

Water: AI models get very hot when they work, so data centers need water to cool them down. And not just a few buckets — we're talking **BILLIONS OF LITRES** every year. Some studies say that just training one big AI model like GPT-3 used about 700,000 liters of fresh water. This is putting extra pressure on areas already struggling with drought.



2. The Rise of Cognitive Offloading:

We are so used to asking AI for answers that we are moving our thinking process outside our own minds — a phenomenon called **cognitive offloading**. Students, professionals, even writers rely on AI instead of exercising their own problem-solving skills. Over time, this can reduce our creativity, critical thinking, and ability to work independently. If we stop using our brain, it will stop growing.

3. Your Privacy Is at Risk:

We share our personal photos, information, and even voice recordings with AI tools without thinking twice. But once that data is out there, we can't control how it's used. It could end up in the wrong hands or be used for purposes we never agreed to.

4. The Scary Side of Deepfakes:

AI can now create fake videos and images so real that it's almost impossible to tell they're fake. Recently, even celebrities like **Rashmika Mandanna** became victims of deepfakes.

But the danger doesn't stop there—deepfakes **can destroy trust in relationships** by making it look like someone did or said things they never did. This can break happy families, cause emotional breakdowns, and, in extreme cases, even lead to violence, blackmail, or murder.

There are also many AI models being misused to create explicit adult content for profit, often without the person's consent. This not only harms the victim's reputation but also opens the door to harassment, extortion, and cybercrime on a massive scale.

AI is powerful, but it's not free—it costs our environment, our privacy, and maybe even our ability to think for ourselves.

We can't stop progress, but we can CHOOSE how we use it. Let AI help you, but don't let it control you. Use your brain, stay alert, and remember: being fully dependent on anything is never a good idea.

Is That Really You? Deepfakes and the Death of Trust

Yubaraj Das, 4th Year

Have you ever watched a video online and thought, "That's a little too perfect?" You might be seeing a deepfake—a digitally altered video or image where someone appears to say or do something they never actually did. Thanks to AI, it's now possible to make a convincing video of you or anyone else doing things they've never done. It's a tech trick that's both fascinating and frightening.

Deepfakes are powered by artificial intelligence that can replicate a person's voice, mannerisms, and facial expressions. While they've been used creatively in films and art, they also pose a serious threat to trust and security. In politics, deepfakes can spread misinformation, and in entertainment, they can distort reputations. Imagine seeing a viral video of a politician making controversial remarks—or worse, a deepfake made to ruin someone's life.

For women, deepfakes carry an even darker risk. Non-consensual deepfake pornography has emerged as a disturbing trend, where people's faces are inserted into explicit videos without their consent. This invasion of privacy often leads to harassment, emotional distress, and long-term damage to reputations.

The biggest problem with deepfakes is that they exploit our natural tendency to believe what we see. As technology advances, it becomes harder to trust any digital media. And once trust is lost, it's nearly impossible to get back.

So, how can we protect ourselves? First, stay skeptical of viral content—especially if it triggers strong emotions. Double-check sources, use deepfake detection tools, and support laws that combat malicious deepfakes. Tech companies also need to step up in improving detection methods.

Deepfakes may be the future of digital media, but that doesn't mean we have to let them control our reality. Stay informed, stay skeptical, and always question that "perfect" video you see online.

How Do Recommendation Systems work?

Sagnik Pramanik, 4th Year

Have you noticed that:

-> After watching a science fiction movie, Netflix and other platforms suggest something similar.

-> If you add a smartphone to your shopping cart, it recommends cases and screen protectors.

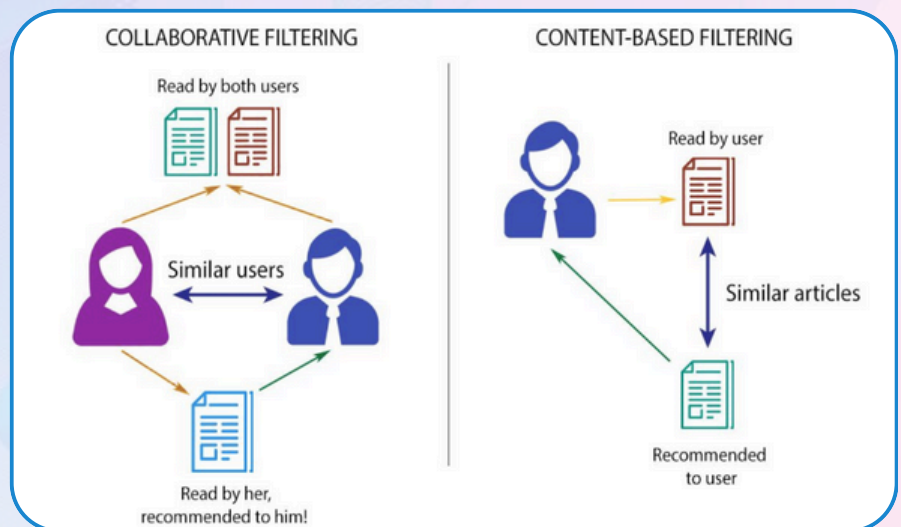
How does the system know what to suggest?

This is powered by recommendation systems, algorithms that predict what users might like based on their past actions. Platforms like Netflix, Amazon, and Spotify use these systems to improve user experience.

Types of Recommendation Systems

1. Content-Based Filtering

Content-based filtering recommends items similar to those the user already likes. Each item (e.g., a movie) is represented by features like genre or actors. The system calculates how similar two items are using cosine similarity:



Cosine Similarity $(A,B) = A \cdot B / (||A|| ||B||)$

If a user liked a sci-fi movie with vector **Movie_A**=[1,0,1], and another movie is **Movie_B**=[1,1,1], the cosine similarity score helps decide whether to recommend **Movie_B**.

2. Collaborative Filtering

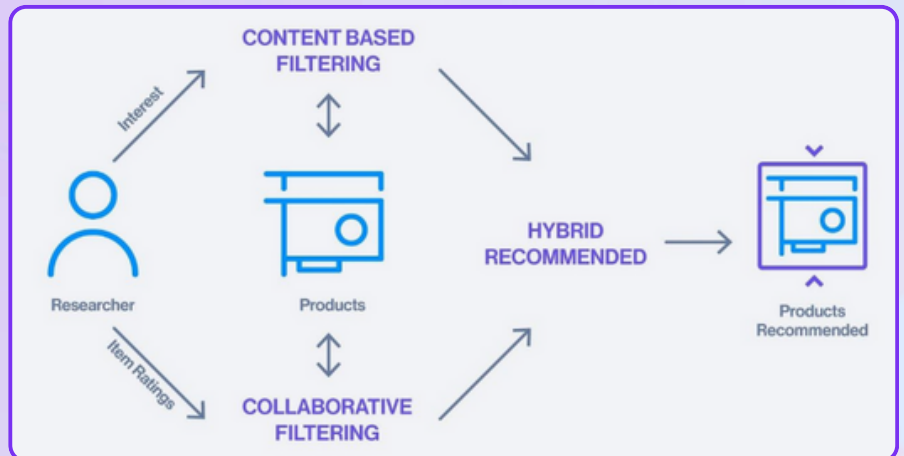
Collaborative filtering recommends items based on user behavior. The idea is, “If two users liked similar items, they will likely enjoy the same things in the future.” This is done by matrix factorization, where user-item interactions are split into two smaller matrices.

User preferences = P

Item features = Q

Then $R \approx P \cdot Q^T$

By minimizing the error between predicted and actual ratings, the system can suggest items to users.

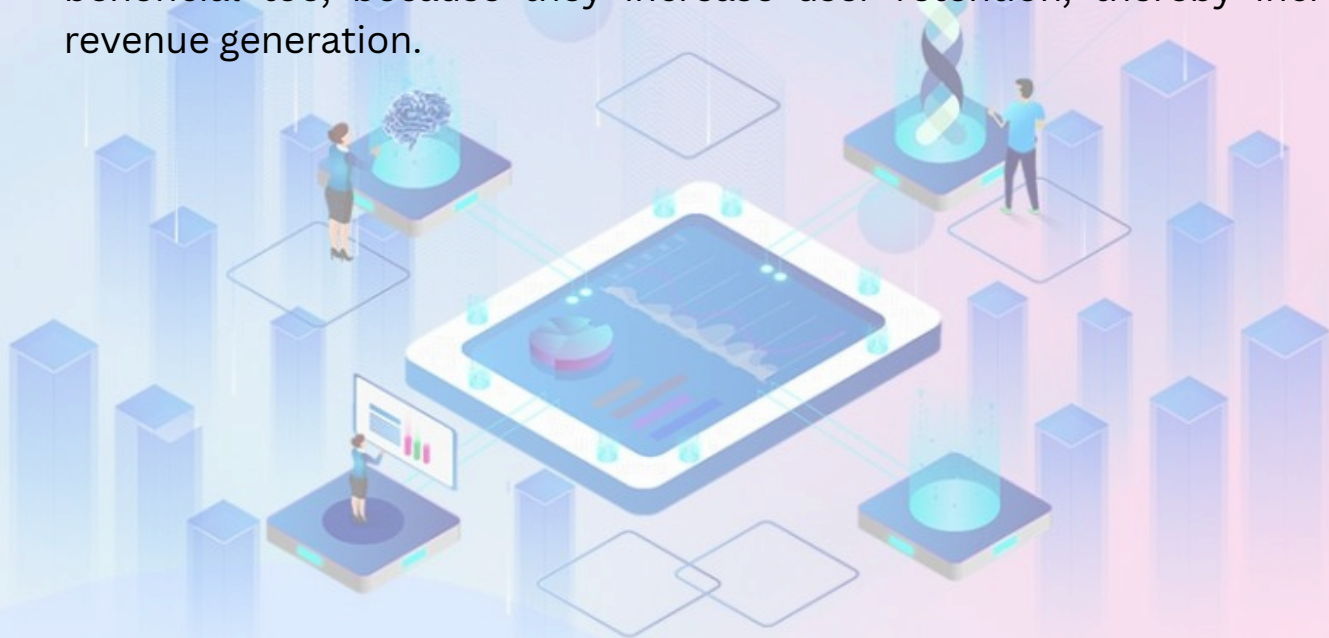


3. Hybrid Systems

Modern platforms often combine content-based and collaborative filtering for better accuracy. For example, Netflix uses both to recommend movies based on users' tastes and the content they enjoy.

Why It Matters

Recommendation systems improve user engagement and help businesses by providing personalized suggestions. They are becoming smarter with better algorithms and advancements in AI, making our online experiences more personalized. For the company, recommendation systems are beneficial too, because they increase user retention, thereby increasing revenue generation.



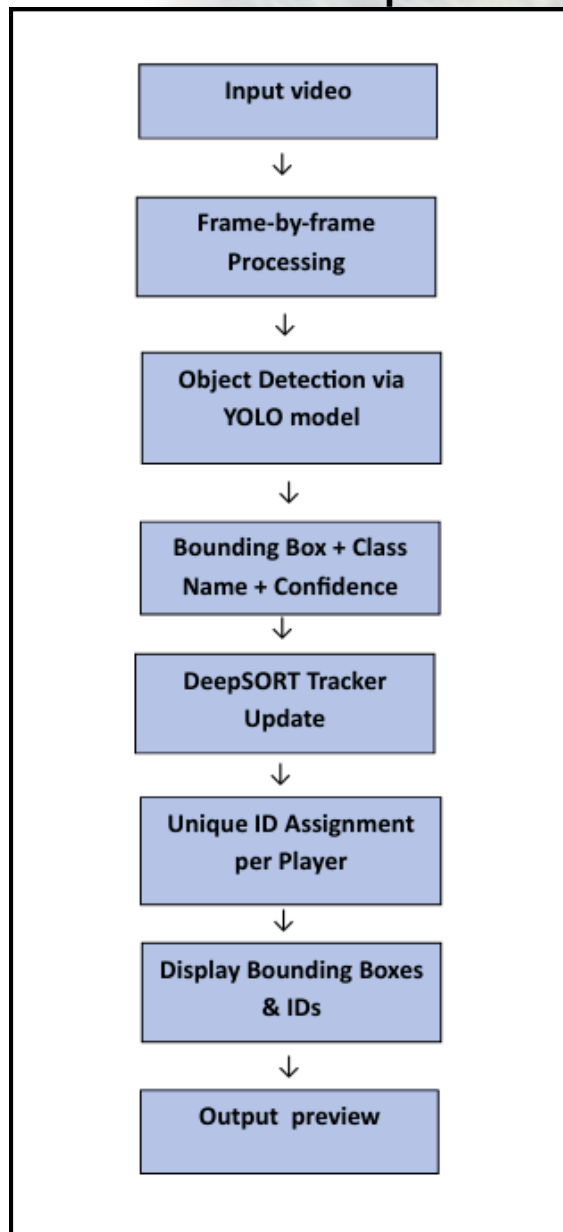
Re-Identification in a Single Feed by DeepSORT

Shubham Biswas, 3rd Year

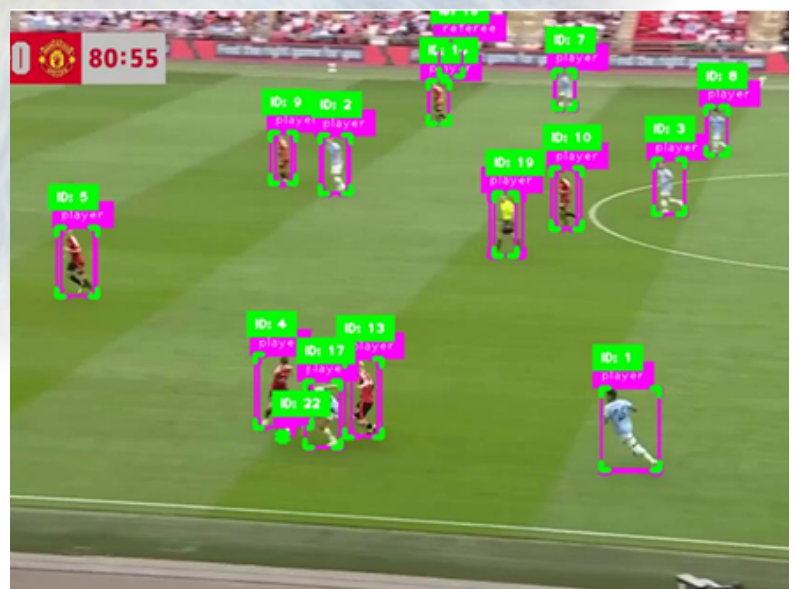
Objective

The goal is to process a 15-second video to detect and track players throughout the clip, ensuring consistent identity assignment—even when players temporarily leave the frame and reappear later (e.g., during goal events). This simulates real-time player re identification and tracking

Code Structure & Explanation



DeepSORT (Deep Simple Online Real-time Tracking) is a computer vision algorithm designed for multiple object tracking in video sequences. It builds upon the earlier SORT (Simple Online Real-time Tracking) algorithm by integrating a deep learning-based appearance descriptor.



Approach

1. Model Setup:

Used the provided fine-tuned YOLOv11 model (based on Ultralytics YOLO) trained to detect players and the ball.

2. Detection and Tracking:

Frame-by-frame object detection was performed to identify player locations.

- o Initial player IDs were assigned using centroid tracking with basic appearance-based heuristics.
- o A lightweight tracking algorithm (e.g., Kalman filter or SORT) was used to maintain consistent identities.

3. Re-identification Strategy:

Players exiting the frame were tracked using their last known position and appearance features.

- o On re-entry, players were matched to their original ID using spatial and visual similarity.

4. Simulating Real-Time Processing:

The video was processed sequentially to mimic a real-time stream, updating player states dynamically.

Libraries Used

cv2 (OpenCV)

Purpose: Handles video input/output, image processing, and GUI.

Usage: Reading video frames with `cv2.VideoCapture`, displaying processed frames using `cv2.imshow`, and controlling frame rate and key inputs via `cv2.waitKey`.

cvzone

Purpose: Simplifies drawing and UI-related tasks in OpenCV.

Usage: Drawing bounding boxes with stylish corners using `cvzone.cornerRect`, and displaying labeled text with `cvzone.putTextRect`.

Advantage: Provides cleaner, professional visual output with minimal code.

ultralytics

Purpose: Provides an interface for using YOLOv8 models.

Usage: Loading and running the pretrained YOLOv8 model with `YOLO("best.pt")` and getting detection results from video frames.

Advantage: Makes YOLOv8 inference simple and efficient.

deep_sort_realtime

Purpose: Performs object tracking using both motion and appearance features.

Usage: Tracks players or objects across frames based on detections from YOLO, maintaining consistent IDs over time.

Feature: Uses MobileNet as an embedder for lightweight, real-time tracking performance.

INTRODUCTION TO CYBERSECURITY FOR BEGINNERS

Samik Podder, 2nd Year

WHAT IS CYBERSECURITY? WHY IT IS IMPORTANT?

Cybersecurity refers to the practice of protecting systems, networks, and data from digital attacks. These attacks are usually aimed at accessing, changing, or destroying sensitive information, extorting money, or interrupting normal business operations. Cybersecurity is a combination of technologies, processes, and practices designed to defend against threats in cyberspace. It is important because of the following factors:-

- **Data Protection:** Personal, business, and government data are valuable. Without protection, sensitive data can be stolen.
- **Financial Safety:** Cybercrime can lead to direct financial loss.
- **Privacy:** As more devices connect to the internet, maintaining privacy becomes critical.
- **Business Continuity:** Security breaches can halt operations and damage reputation.



COMMON CYBERSECURITY THREATS

- **Malware:** Malicious software that damages or takes control of your system.
- **Phishing:** Fake emails or websites that trick users into giving away personal info.
- **Ransomware:** Locks systems or files and demands payment.
- **Man-in-the-Middle Attacks:** Intercept communication to steal data.
- **Denial-of-Service Attacks:** Overload systems to make them unusable.

BASIC CYBERSECURITY MEASURES YOU CAN TAKE

- **Use Strong, Unique Passwords:** Avoid using the same password everywhere. Use complex combinations and consider a password manager.
- **Enable Two-Factor Authentication (2FA):** Adds extra layer of security - even if your password is stolen
- **Install Antivirus and Keep Software Updated:** Protects from vulnerabilities. Antivirus helps detect and block malicious files.
- **Be Wary of Suspicious Emails or Links:** Don't click on unknown links or download attachments from unknown sources.
- **Secure Your Wi-Fi Network:** Use strong encryption and change default router login credentials

CAREERS IN CYBERSECURITY

Cybersecurity offers roles like:-

- Security Analyst
- Penetration Tester
- Security Engineer
- Incident Responder
- Chief information security Officer (CISO)

Most roles require technical knowledge, problem-solving skills, and continuous learning.



KEY AREAS OF CYBERSECURITY

- **Network Security:** Protects internal networks from intrusions.
- **Information Security:** Ensures integrity and privacy of data.
- **Application Security:** Keeps software and applications secure from threats.
- **Operational Security:** Manages how data and systems are handled internally.
- **Disaster Recovery:** Plans for recovery from breaches or failures.
- **End-User Education:** Training users to recognize and avoid threats.

FINAL THOUGHTS

Cybersecurity is no longer just an IT concern—it's everyone's responsibility. Whether you're a student, developer, business owner, or regular internet user, basic cybersecurity awareness can go a long way in protecting your digital life.

As threats grow more sophisticated, staying informed is your best defense.



URSINA GAME ENGINE

Samya Khastagir , 3rd Year

The Ursina Game Engine is a beginner-friendly, open-source Python framework that makes game development fast, intuitive, and accessible. With its simple entity-based system, built-in physics, collision handling, and support for both 2D and 3D projects, Ursina allows developers to focus on creativity rather than complex setup. Its minimal syntax, hot-reloading feature, and cross-platform compatibility make it ideal for rapid prototyping and educational projects, enabling even those with basic Python knowledge to build interactive, visually appealing games in just a few lines of code.



I recently created a platform jumper game in Python using the Ursina game engine. First, I set up the basic window and added a controllable player entity with gravity. I then built platforms at varying heights using Ursina's Entity class, adjusting positions so the player could jump between them. Collision detection was handled automatically by Ursina's built-in physics, making development smooth. I scripted camera movement to follow the player as they climbed higher. To increase challenge, I spaced platforms randomly and added scoring based on height reached. Ursina's simplicity allowed me to quickly prototype and polish the game's core mechanics.

FROM HELLO WORLD TO BIG IDEAS: MY JOURNEY WITH PYTHON

Every coder remembers their first “Hello World” moment—the thrill of making a computer talk back. For me, that moment happened with Python. No complicated syntax, no steep learning curve—just me, my laptop, and a language that felt more like a conversation than a command. That’s how my journey began.

When I first heard about Python, it wasn’t from a lecture or a programming textbook. It was from friends casually saying, “Python is so easy, even a beginner can make something cool in a week.” I didn’t fully believe them—until I tried it myself.

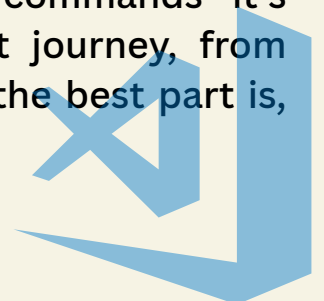
The first thing that struck me was its simplicity. Python code reads almost like English, so instead of battling with symbols and semicolons, I could focus on logic and creativity. My early experiments were small, but each one gave me a sense of accomplishment and made me eager to try something more challenging.

Soon, I found myself building things I never thought possible—a simulation game where I could design my own virtual scenarios, and a program that could recognize speech and respond back. It was thrilling to see ideas from my imagination come alive on screen.

Python didn’t just teach me to code—it taught me how to turn imagination into reality.

The deeper I explored, the more fascinating it became. I realized Python could do almost anything—from automating boring tasks to analyzing data, creating interactive tools, and even stepping into the world of artificial intelligence. Every step forward felt like unlocking a new superpower.

For me, Python turned coding from a scary subject into a creative outlet. It made me believe that programming isn’t about memorizing commands—it’s about building something meaningful from an idea. That journey, from “Hello World” to big ideas, is one I’m still happily on—and the best part is, it’s only just beginning.



AI-Integrated Smart Honeypot

Chandan Kumar Singh

3rd Year



ABSTRACT:

This paper presents the concept of an AI-integrated Smart Honeypot, an adaptive cybersecurity tool that leverages machine learning, predictive analytics, and dynamic interaction to enhance threat detection and response. It delivers sharper insights and offers a more resilient and intelligent defense against cyber threats.

1. INTRODUCTION:

In the ever-changing world of cybersecurity, honeypots have long been used as decoy systems to attract and trap attackers. Traditionally, honeypots are static and offer a predictable set of vulnerabilities to lure attackers. While they provide valuable insights into attack strategies, they fall short in dealing with sophisticated, adaptive adversaries.

This paper proposes an AI-integrated smart honeypot that uses machine learning algorithms and automated tools to adapt to attacker's behavior and predict future threats. We will discuss how AI can make honeypots smarter, more effective in defending against cyberattacks. By leveraging AI, the system can autonomously evolve and provide insights to network administrators helping them strengthen their defense.

2. LITERARY REVIEW:

Honeypots have long been used in cybersecurity to study attacks and collect threat intelligence. Early works (such as Spitzner, 2003) employed static honeypots to observe common attack techniques. However, these traditional systems lacked adaptability and were vulnerable against advanced threats.

Recent advancements in AI-driven cybersecurity have led to the exploration of machine learning (ML) and other techniques for improving honeypots. For instance, Enea Gizzarelli's work shows how integration of ML models into honeypots can be used to automatically classify attacks and detect anomalies, yet the honeypots remained relatively rigid in function, offering the same vulnerabilities.

Building on this foundation, our work introduces an AI-integrated honeypot capable of adapting to threats, learning from past intrusions, and forecast threats. This approach can significantly increase the effectiveness of honeypots in capturing new attack techniques. Tools like DECEIVE and VellMes are great examples of how AI is helping honeypots become smarter and more flexible. They can interact with attackers in a realistic way, making it easier to spot and understand threats as they happen.

3. METHODOLOGY:

Our AI-integrated honeypot is built on these core key components:

- **Machine Learning Algorithms:** It implements supervised and unsupervised learning to recognize attack patterns and adjust defenses dynamically.
- **Dynamic Behavior Modeling:** The system mimics various environments and vulnerabilities, adapting its behavior based on attacker actions to appear authentic.
- **Predictive Analytics:** By analyzing past intrusions, it forecasts potential threats and deploys preemptive countermeasures.
- **Interaction Simulation:** Using Natural Language Processing (NLP), it engages attackers in a realistic environment, capturing deeper insights into their methods.
- **Real-time Data Feedback:** The honeypot provides live intelligence such as threat types, high-risk IPs, and vulnerabilities to monitor, supporting rapid incident response.

4. RESULTS & DISCUSSIONS:

We tested the AI-integrated honeypot against basic simulated cyberattacks such as phishing, DDoS, etc. The system adapts its defenses to outperform threats. For instance, during an SQL injection attempt, it adjusted its database structure to appear vulnerable.

Compared to traditional honeypots, which offered limited data, the AI system:

- Revealed detailed attacker tactics and tools.
- Detected unknown threats through anomaly analysis.
- Predicted and blocked future attacks proactively.

These results highlight the honeypot's ability to handle adaptive threats and provide real-time intelligence to enhance security. Despite these strengths, challenges remain, such as ensuring AI models can handle diverse attack techniques and maintaining seamlessness, which would require regular retraining and updated threat data, real-time integration with existing cybersecurity infrastructure and careful api designs, etc.

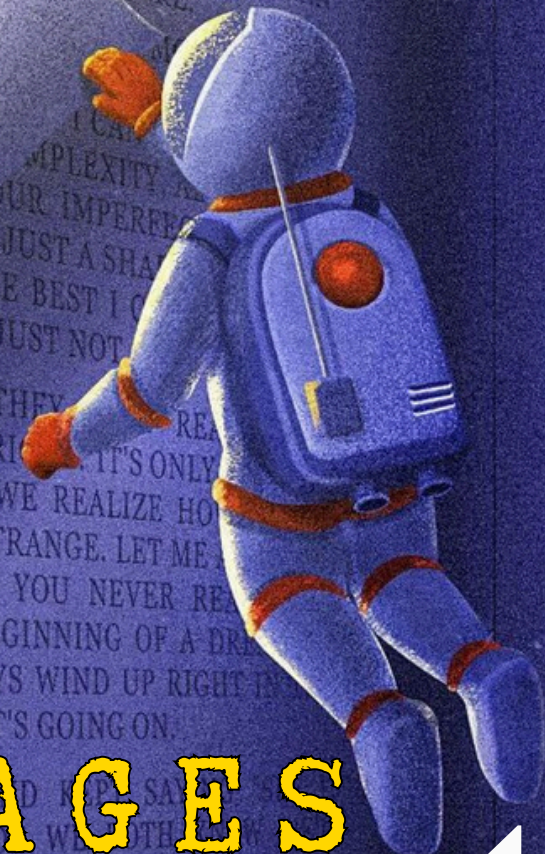
5. CONCLUSION:

The AI-integrated honeypot becomes a viable solution in cybersecurity. It offers a dynamic, adaptive system that learns from attacker behavior and forecasts recurring threats. By implementing AI technologies, this system provides more effective and robust defense mechanisms, enhancing overall security. Future works should focus on refining the machine learning models, integrating the system with larger security frameworks, and testing its performance in real-world environments.

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PAGES OF Perspective



UNDERCOUNTED' 'COS
FREE YOU'VE GOT A NEW
NORMAL STYLE.
THINK, LATER THAN
I LIKE.

I CAN
COMPLEXITY
OUR IMPERFECT
ARE JUST A SHA
THE BEST I C
YOU ARE JUST NOT

REAMS, THEY
IN THEM, RIGHT? IT'S ONLY
UP THAT WE REALIZE HOW
E ACTUALLY STRANGE. LET ME
QUESTION, YOU, YOU NEVER REAL
MEMBER THE BEGINNING OF A DREAM
YOU? YOU ALWAYS WIND UP RIGHT IN
MIDDLE OF WHAT'S GOING ON.

WE LAUGHED AND I SAID
SOON" BUT IN THE END, WE
NEVER SEE EACH OTHER AGAIN
THE OUTER WORLD OF SEE IS
OF YOUR INNER SELF.

TO SEE THE WORLD, THINGS DANGEROUS
COME TO, TO SEE BEHIND WALLS.
TO DRAW CLOSER, TO FIND EACH OTHER
AND TO FEEL. THAT IS THE PURPOSE OF EXPLORATION.
BEAUTIFUL THINGS DON'T ASK FOR ATTENTION.

INSPIRATION IS A REWARD OF HARD WORK

TIME

IN CASE I DON'T
GOOD AFTERNOON
GOOD EVENING
AND GOOD NIGHT

2019 3

Role of Communication and Technology in Management

SIDHARTHA MOJUMDAR
TECHNICAL ASSISTANT

INTRODUCTION :

All emerging countries' information and communication technology sectors have thrived. The rate of technical innovation in communication has skyrocketed, and the industry is primarily less than 20 years old. Customer service is a critical component of every service industry that requires advanced communication technologies to improve efficiency, transparency, and accuracy.

BODY :

In general, the introduction of technology and communication raises market prices and increases market accessibility. A developing and inventive market may also attract innovation, since low-income clients need high-end services, which can be a significant challenge for a corporation.

The firm relies heavily on social media for marketing strategy since it is inexpensive and allows the company to contact a large number of people. Companies who are technologically knowledgeable and internet aware, use these social networks to fulfill their goals, such as

ICT



INFORMATION



COMMUNICATION



TECHNOLOGY

ONLINE AND E-BUSINESS:

E-commerce is the crucial part of every company that is surprisingly activated and carried out by IT support to have some data repositories (Omar, 2016). There must be some management reasons or issues like policies that should be created by the government only. Some contexts that are affecting are external factors such as excessive competition, global economy, and low labour cost. Some inward causes are causing barriers like work force management with financial resources (Kureishy, 2015).

BUSINESS PERFORMANCE:

It's well known that the e-commerce industry is highly competitive. In this study's setting, we must also disclose some of the demographic features that are the foundation of excellent business performance management (BPM). The evaluation of business

performance, closely linked to commercial effectiveness, hinges on a company's ability to implement the best organizational practices aimed at delivering a product or service that fulfils the expectations of consumers and customers (Ahareef, Dwivedi, Williams, & Singh, 2016)

CONCLUSION :

It takes more than a Facebook status post or a random tweet to have some fun. Social networking networks are now immediately entering the corporate world. Anything can happen if you are not prepared to deal with a certain scenario.

Some individuals believe there is no such thing as negative PR. Everything in the social media hub or globe is based on the reputation of the individuals who live here. We've all heard that the phone and email are the best ways to interact with men. It's a major deal if that individual isn't picking up the phone on purpose. If you wish to connect with a government official, you have two options: phone calls and emails (Paye, 2014).

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When Circuits Whispered Among Hills

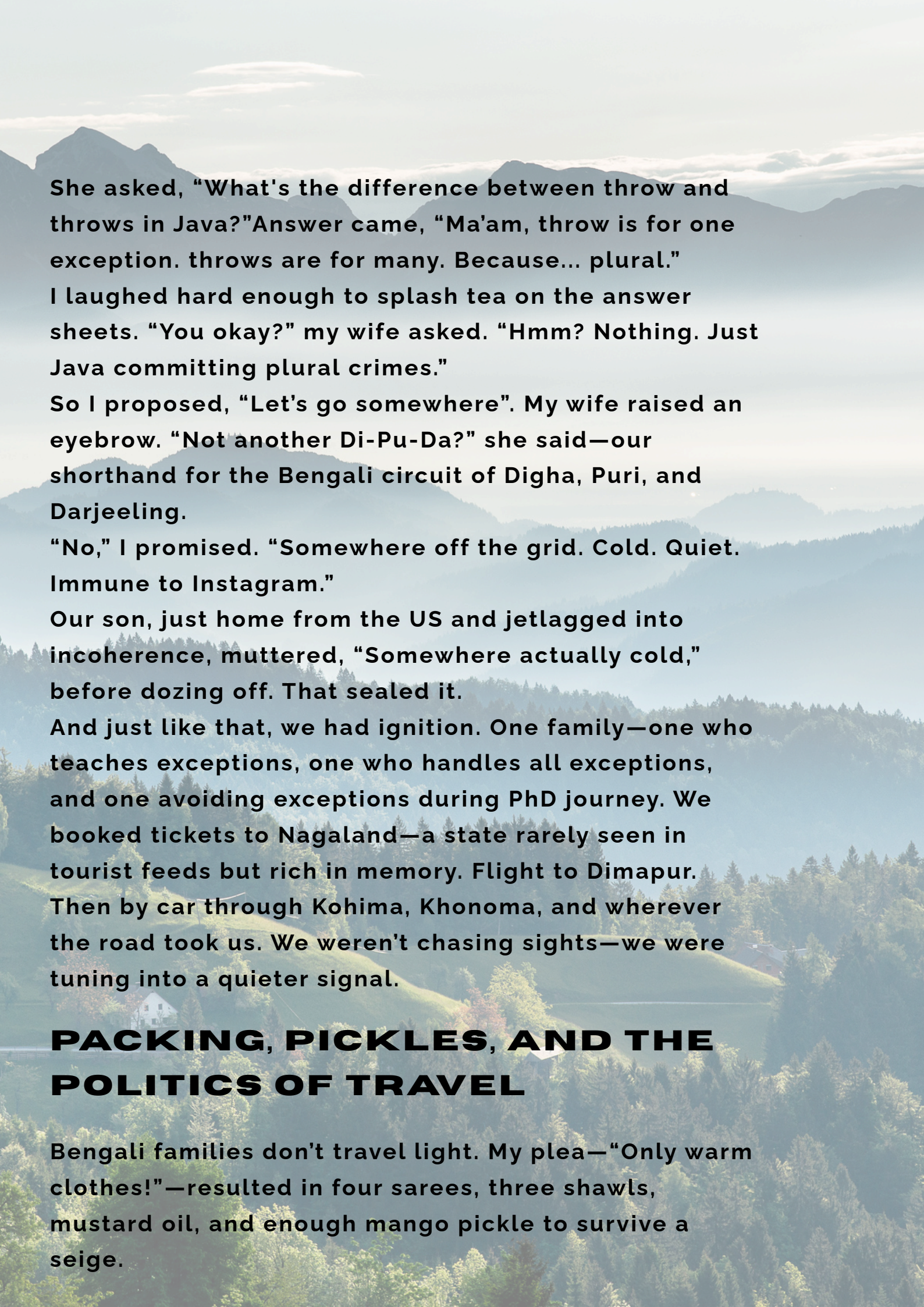
A JOURNEY THROUGH NAGALAND AND FORGOTTEN CODE

**PROF. (DR.) DEBASISH JANA
PROFESSOR**

WINTER IN CONFUSION, ESCAPE IN MOTION

In mid-December, in Kolkata, we had a seasonal confusion—neither winter nor anything else. A koel sang unseasonably from a mango tree, while the hibiscus outside our window bloomed like a calendar misprint. The newspapers talked of frost gripping North India. “Basanta eshe gechhe?” my wife muttered, sweat trickling as she adjusted the pressure cooker. Spring? In December?

The itch to escape began somewhere between a stack of uncorrected exam scripts and a steaming plate of macher matha diye muri ghonto. One student had answered “What is C++?” with, “Unknown, as the value of C is not provided.” A viva gem shared by my vibrant colleague last week still rang in my ears:



She asked, “What’s the difference between throw and throws in Java?” Answer came, “Ma’am, throw is for one exception. throws are for many. Because... plural.” I laughed hard enough to splash tea on the answer sheets. “You okay?” my wife asked. “Hmm? Nothing. Just Java committing plural crimes.” So I proposed, “Let’s go somewhere”. My wife raised an eyebrow. “Not another Di-Pu-Da?” she said—our shorthand for the Bengali circuit of Digha, Puri, and Darjeeling. “No,” I promised. “Somewhere off the grid. Cold. Quiet. Immune to Instagram.” Our son, just home from the US and jetlagged into incoherence, muttered, “Somewhere actually cold,” before dozing off. That sealed it. And just like that, we had ignition. One family—one who teaches exceptions, one who handles all exceptions, and one avoiding exceptions during PhD journey. We booked tickets to Nagaland—a state rarely seen in tourist feeds but rich in memory. Flight to Dimapur. Then by car through Kohima, Khonoma, and wherever the road took us. We weren’t chasing sights—we were tuning into a quieter signal.

PACKING, PICKLES, AND THE POLITICS OF TRAVEL

Bengali families don’t travel light. My plea—“Only warm clothes!”—resulted in four sarees, three shawls, mustard oil, and enough mango pickle to survive a seige.

"Do you think Nagaland has our pickle?" my wife challenged.

Our son packed in five minutes. "Three shirts, two pants, hoodie, research notes."

"You're going to the hills, not giving a tech Talk," I muttered.

Some places you travel to. Others you enter—holding your breath, as if stories might get startled. Nagaland felt like the latter.

DIMAPUR:

ENTERING A FOLDED PAGE

We reached the airport absurdly early. Even the Indigo staff looked like extras from a zombie movie. Our bags? Overweight. "Maybe ditch one sweater?" I whispered. "Maybe ditch you," my wife replied without blinking. Near the gate, we met another trio: a soft-spoken man, his sharp-eyed wife, and their daughter, Ananya—nose-deep in *The History of the Computer* by Rachel Ignatofsky. I noticed. The story was already unfolding. The flight bounced once mid-air. A child screamed "Mummyyy!" like we were nosediving into Mordor. My son reached for his hoodie like it was armor.

Dimapur greeted us with cold, gentle air that didn't try too hard. Unlike curated hill station chill, this was real—slow, quiet, and grounding. The Hornbill Festival had just ended. The crowds were gone.

What remained was the place itself—unposed and honest.

Our driver, Nego, asked, “Culture or comfort?”

“Culture,” I said.

“Comfort,” said my wife.

“You need balance,” he smiled. It felt like the motto of the land.

We drove into the highlands—Kohima’s misty embrace, bamboo roofs, tribal murals, and mountain smiles. The city felt like a painting drawn on a leaf, fog curling over edges like a whispered memory.

We skipped the smoked pork, but the local chicken curry—skin-on and soul deep—won us over. My son went for thirds before we’d even blinked.

KOHIMA:

MEMORY ETCHED IN STONE AND CODE

Kohima rose in terraces—green, grave, and humming. Murals on bamboo walls. Mists curling through rooftops. We visited the Kohima War Cemetery, where silence gathers among perfectly arranged plaques. I read aloud: “When you go home, tell them of us and say, ‘For your tomorrow, we gave our today.’”

A soft voice followed mine. “Uncle, did India really build a digital computer in the 60s?” It was Ananya again, notebook in hand. Her father laughed. “She’s obsessed with computer history.” I nodded. “Then let me tell you a story not found in school textbooks.”

ISIJU-1:

THE MACHINE THAT DIDN'T MAKE HEADLINES

"Ever heard of ISIJU-1?"

"No. Rocket?"

I laughed. "Not a rocket. A computer. Early 1960s, Indian Statistical Institute and Jadavpur University built India's first digital computer—from scratch."

"No imports?"

"Nope. No Google. No clouds. Just soldering irons, second-gen transistors, oscilloscopes the size of microwaves, and sheer Bengali stubbornness. It was a solid-state, second-generation, fully indigenous computer, first digital computer made in India. A machine born of constraints and imagination—a solid-state marvel when India's technological infrastructure was still in infancy."

"But I thought IBM brought us computers?"

"That's what the simplified version says. IBM came, yes. But we had already built one—with our own mind, circuits, and dust-proof cabinets."

"Probably April 1966. ISIJU-1 was inaugurated. The press was present. Scientists stood proud. The machine blinked. The country watched."

Paused a bit, then with a sigh, told, "Then—it crashed. It froze."

"What?"

"Yup. Froze. Perhaps overheated. Vacuum tube failed. Dead-on-stage moment. A ghost in the machine. Headlines might have been harsh."

“Heartbreaking.”

“Worse. But here's the twist—it was fixed quietly. Within days, it ran again. And ran well. Performed calculations. Simulated randomness. Powered punch cards.”

“No headlines?”

“No. Silence. Revival never makes breaking news. There were no second-day stories.”

“Did it lead to something?”

“Yes. That machine sparked something. In 1968, JU launched one of India's first postgraduate diploma in computer science. By 1985, JU produced some of India's one of the earliest full-fledged computer science and engineering graduates—back when IT was still a toddler in diapers.”

“Why don't we learn this in school?”

“Because... we forget stories that don't scream. The story faded. IBM came. Gloss and imports eclipsed grassroots grit. But ISIJU-1 whispered the beginning.” I told Ananya.

My wife finally asked, “Is this why we smuggled mango pickles through airport security?”

KHONOMA:

RESISTANCE, REVIVAL, AND A TEENAGER'S SEARCH

Khonoma—the green village of resilience. Once a British battleground, now a peace poem written in paddy fields and forest canopies.

Terraces climbed hills like lines in a prayer. Wind chimes danced from porches. Children chased butterflies, not bandwidth. Sustainability wasn't a buzzword here—it was inheritance.

We met Ananya again. She was very excited. "I found a LinkedIn post from the engineers. About ISIJU-1. It had a photo. Rusting cabinet. Still majestic."

"Ah! Now the story breathes again."

"Why don't we preserve such machines?" she asked. I had no answer that wouldn't sound cynical.

"We honor tanks," I said finally. "But rarely the tools that build futures."

She nodded. "I'll write about it. Maybe call it 'For your tomorrow, they coded their today.'"

It was her story now.

RETURN: CIRCUITS AND CIRCLES

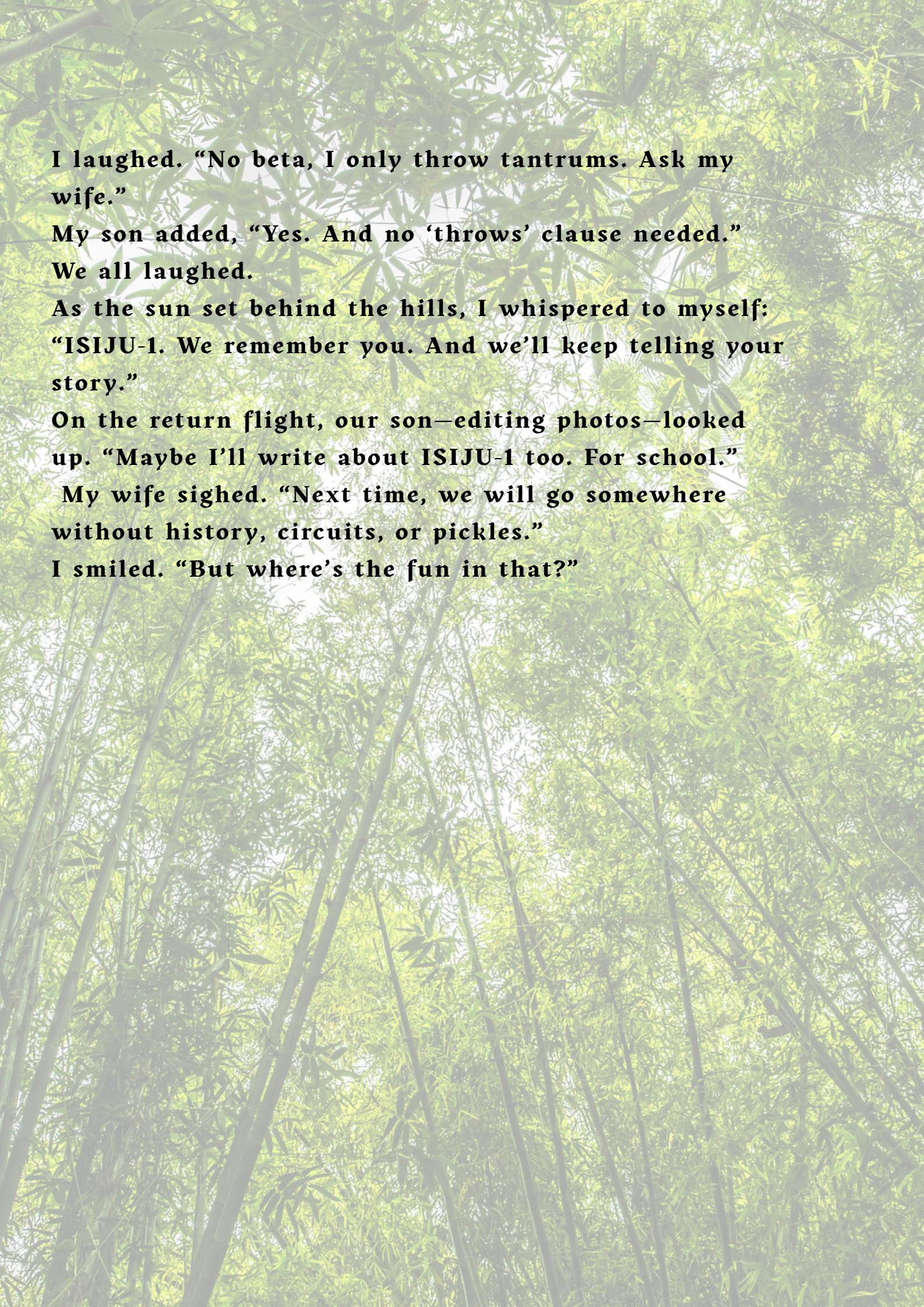
At the Dimapur Bamboo Centre, the air smelled of firewood and varnished dreams. Ananya's father mentioned they might stop by ISI and JU in Kolkata.

"Good," I said. "They're pilgrimages too—for those who know how to listen." Ananya tugged my sleeve.

"Uncle... one last thing."

"Yes?"

"Do you throw exceptions?"



I laughed. “No beta, I only throw tantrums. Ask my wife.”

**My son added, “Yes. And no ‘throws’ clause needed.”
We all laughed.**

**As the sun set behind the hills, I whispered to myself:
“ISIJU-1. We remember you. And we’ll keep telling your story.”**

On the return flight, our son—editing photos—looked up. “Maybe I’ll write about ISIJU-1 too. For school.”

My wife sighed. “Next time, we will go somewhere without history, circuits, or pickles.”

I smiled. “But where’s the fun in that?”

The Cry of **NATURE**

PROF. (DR.) ANURINA TARAFDAR
ASSISTANT PROFESSOR

Today the night came early,
In the green picturesque valley.
The atmosphere was filled with terror,
The air was dense with smoke and gunpowder.

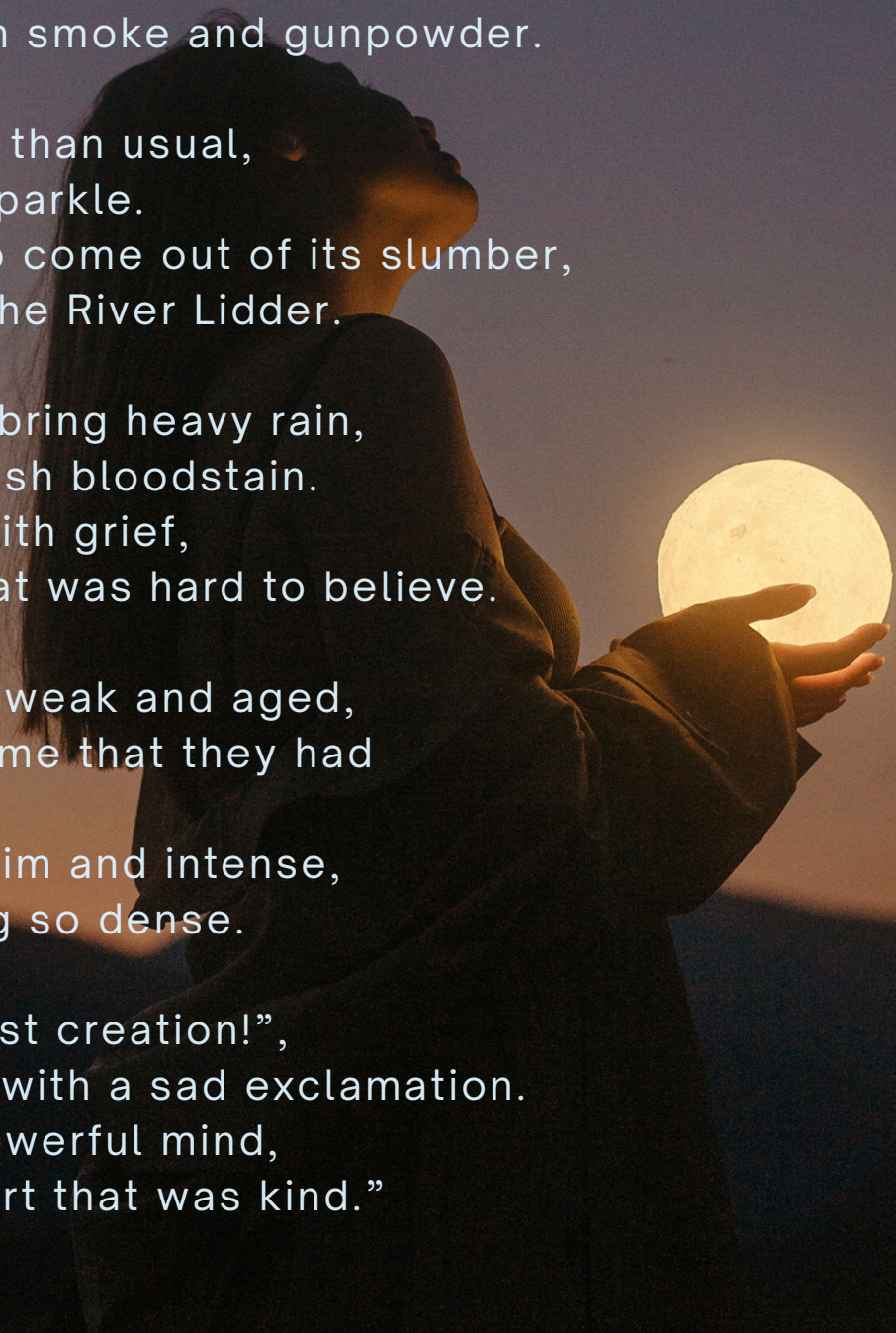
The sky looked darker than usual,
The stars refused to sparkle.
The moon struggled to come out of its slumber,
the water was still in the River Lidder.

The clouds wanted to bring heavy rain,
And wash away the fresh bloodstain.
But they got choked with grief,
due to the brutality that was hard to believe.

The mountains looked weak and aged,
Traumatized by the crime that they had
witnessed.

The pine forest was grim and intense,
Cursing itself for being so dense.

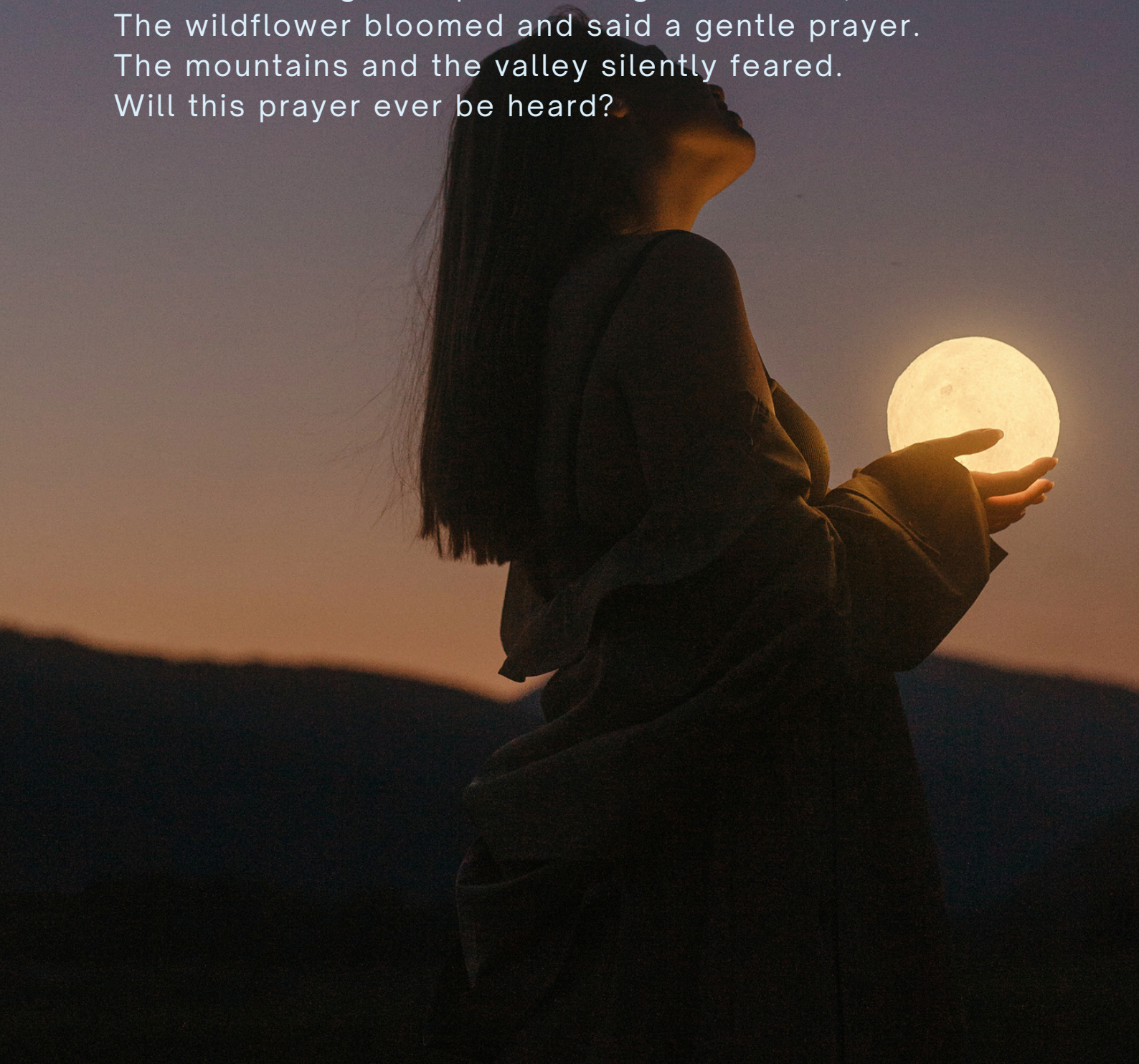
Humans are my greatest creation!",
Sighed Mother Nature with a sad exclamation.
"Alas, if only with a powerful mind,
I had given them a heart that was kind."



While the despair became difficult to cope,
There came a small wildflower with hope.
“Mother, allow me to bloom tomorrow,
in this blood-soaked valley that is filled with sorrow.”

“As I will remove my leafy veil,
I will pray for peace to prevail.
May this beautiful place no longer be tense,
and become Heaven on Earth in the true sense.”

As the morning sun spread its light with care,
The wildflower bloomed and said a gentle prayer.
The mountains and the valley silently feared.
Will this prayer ever be heard?





Lens & Light



***Tsomgo Lake
Arnab Senapati
4th Year***



***Mountains of Arunachal
Pradesh
Maheeyan Saha
3rd Year***



***Phewa Lake, Nepal
Sinchan Ghosh
2nd Year***



*By discovering
nature, you discover
yourself.*

*The antidote to
exhaustion isn't rest,
It's nature.*





***Fog and mountain—
Sayan Kundu
4th Year***

***Mountains, forests,
wildlife, and
monuments — the
timeless wonders of
creation***



***Calm mountain view
Rishabh Kumar Sinha
2nd Year***



***Debolina Debnath
2nd Year***



***Ghanta Ghar, Jodhpur
Asmita Biswas
2nd Year***

*Respect
your roots
and
traditions;
they carry
stories that
guide your
future.*



**Victoria memorial -
Srijit Roy
3rd Year**

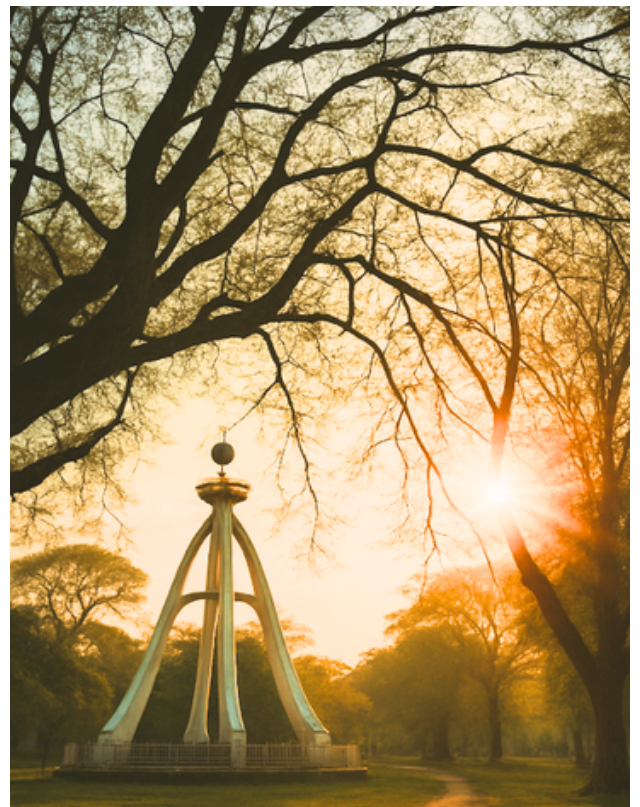


**Lodh falls
Shubham Biswas
3rd Year**



Dec 30, 2024, 11:16

**Kolkata taxi
Surajit Ray
3rd Year**



**Freedom tower
Samar Singh
2nd Year**

Sher Shah Suri Tomb
Chandan Kr Singh
3rd Year

**Through every lens, a new
story unfolds – from ancient
tombs to modern sunsets,
from nature's grace to vibrant
expression.**

A small antelope
Debolina Debnath
2nd Year



A artistic wall painting
Ashutosh Bajpayee
4th Year



Sunset in the City by
Rishiraj Rout 2nd Year





WORD

Weaver

THE ETERNAL LIE

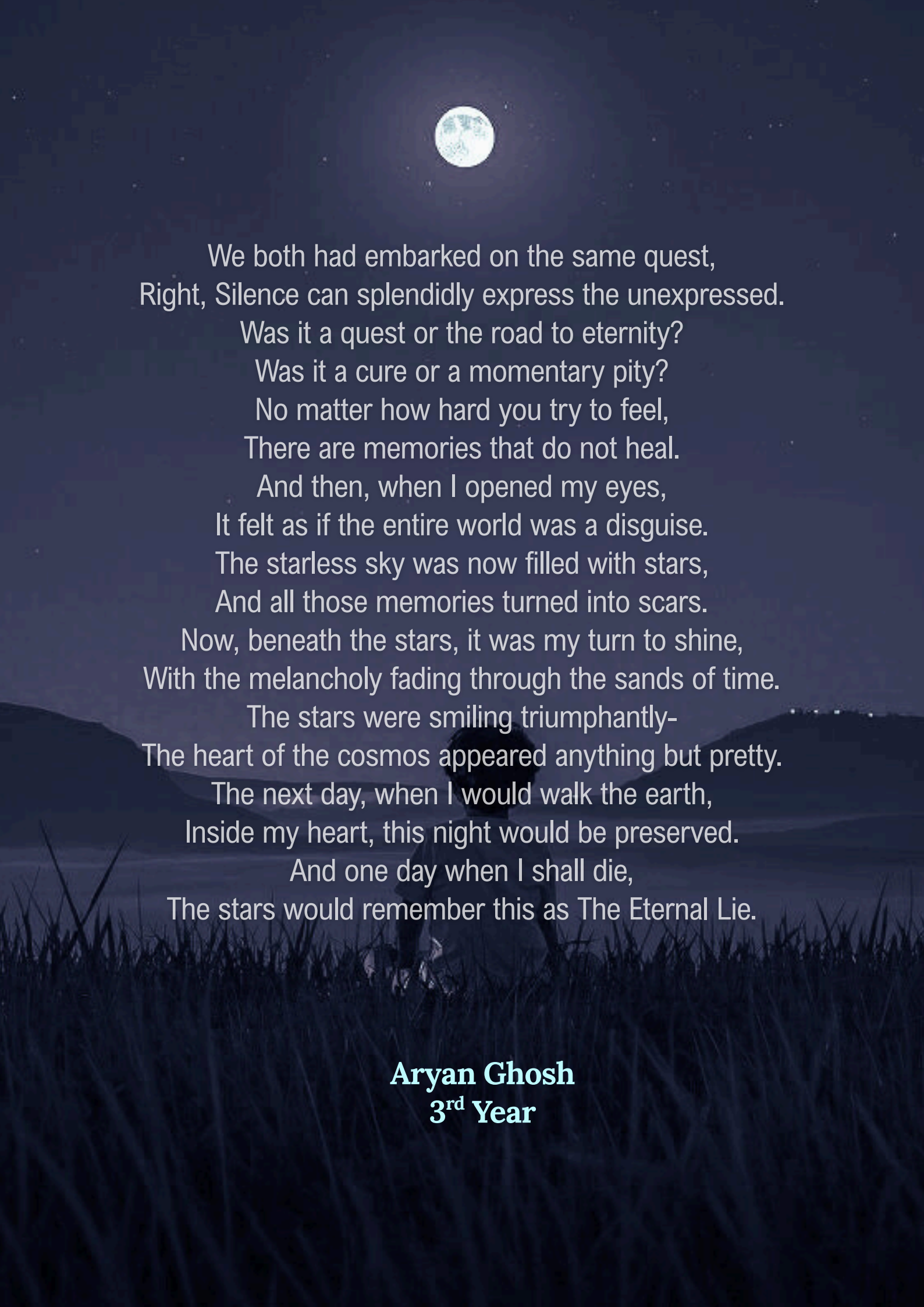


As I looked into the starless sky,
I caught a glimpse of the Eternal Lie.
I could feel the earth drowning in the lake of sleep,
And I found my conscience being woken from somewhere deep.

It felt as if the sky had a tale to narrate,
Or maybe, it wanted to expose my fate.
I lay there, watching the standstill sky,
Thinking when I could unfurl my wings to fly.
But the sky was silent and without a tale,
That was when I could feel my hopes fail.

Then, suddenly, I realized at nature's expense,
That the sky was telling me the Story of Silence.
I closed my eyes to feel the story,
Wondering whether it could unveil my inner glory.
A new experience was on the roll,
Yes, Silence can heal a broken soul.

My heart was glowing with the light of tranquillity,
That was the moment I explored Silence's beauty.
The serenity which filled my heart,
Would become my life's spiritual art.
The sky was silent, so was I,
But we could feel the emotions fly.

A person is sitting in a field of tall grass, looking up at a full moon in a dark sky. The scene is dimly lit, with the moon being the primary light source. The person's silhouette is visible against the dark background.

We both had embarked on the same quest,
Right, Silence can splendidly express the unexpressed.
Was it a quest or the road to eternity?
Was it a cure or a momentary pity?
No matter how hard you try to feel,
There are memories that do not heal.
And then, when I opened my eyes,
It felt as if the entire world was a disguise.
The starless sky was now filled with stars,
And all those memories turned into scars.
Now, beneath the stars, it was my turn to shine,
With the melancholy fading through the sands of time.
The stars were smiling triumphantly-
The heart of the cosmos appeared anything but pretty.
The next day, when I would walk the earth,
Inside my heart, this night would be preserved.
And one day when I shall die,
The stars would remember this as The Eternal Lie.

Aryan Ghosh
3rd Year

THE PRINCE

In a castle where chandeliers gleam,
The prince smirks while plotting a scheme
He summoned his advisor, wise and sly,
“To be treated as a god, what should I try?”

“Your Highness!”, the man said, with a shrewd little grin,
“To rise to divine status, here’s where to begin:

First, look flawless and divine,
Words of virtue filled in every line,
Let news of your errors be silenced and sealed,
Your image must glow, nothing true should be revealed.

Second, choose your symbol,
A sword, a crown, or a badge to rule.
Let it shine as a beacon of pride
As the masses unite and stand by your side.

Third, guard your reputation with walls made of gold,
Build it up daily with tales brave and bold.
Keep scandals at bay, let your shadow stay thin,
Paint your pictures bright, no one must know your sin.

Fourth, craft a narrative of 'us' and 'them',
Like moths drawn to flame, let people play your game.
Your loyal followers must be heard loud and clear,
While your opponents live their lives in constant fear.

Fifth, build up some fear and let your powers be known,
Make sure people adore you but fear your throne.
Love can just whisper, but fear speaks out loud,
With terror as a shield, you'll stand strong and proud."

The prince listens closely, his eyes narrowed in thought,
"Is this all necessary? Won't I be caught?"

The advisor smiled with eyes calm and cold,
"Your Highness, the masses are easily sold.
They see the gold not the dirt underneath,
The people are swayed, they'll believe any deceit.

It's not about the substance or what's truly real,
But the image you show, in which they'll kneel.
A god is what they want, not what you truly are,
Shine like a star, and they'll follow from afar."

- Yubaraj Das
4th Year

UNFILTERED LOVE

We are not puzzles needing to fit,
Nor shapes to mold just bit by bit.
You are you, and I am me-
Love should feel like setting free.

No need to paint ourselves anew,
To match a shade or change our hue.
Your quirks, my flaws, our untamed ways-
These make up our brightest days.

I won't rewrite my heart for you,
Nor ask you to unmake your truth.
We bloom, not bend, beneath this light,
Not perfect-but perfectly right.

So hold my hand, just as you are,
No distant dream, no masked-up star.
We don't need roles or scripted lines-
We love in honest, raw designs.

Let's not adjust to pass some test,
We're at our best when self-expressed.
Together not to be remade-
But to grow wild, unafraid.

- Arpita Nath
4th Year



THE LIES IN THE TRUTH

I strolled through the untrodden path
Not knowing the onset of the perilous breeze.
The lanes felt wicked while the echoes concealed;
The heart went numb, and sight tended to freeze.

The yelling from the surrounding portrayed the jeopardy;
It tried to hold my senses aback.
Strong was the vigour of my vehemence—
Driven by the supernatural, it pushed the way off track.

Slowly, slowly, my senses fell apart.
The solidity of the mystical forces took over the earthly hue.
Mist crept in and edges softened; it blurred the day into dream,
With twisted truths, faith being shattered, it led the pain to sue.

I crumbled upon the way, the veins drenched in chronic tears.
The raging fire left questioning the roaring cry.
The power of the unnatural diminished the fiery chords.
I only persisted a sagely retort: Was it a lie? Was it a lie?

- **Srijit Roy**
3rd Year

আকাঙ্ক্ষার অলিন্দে (In the Corridors of Longing)

আমরা বসবাস করি— সম্ভাবনার প্রতিশ্রুতিতে,
যেখানে প্রত্যাশা এক দুর্বোধ্য প্রতিচ্ছবি,
আর প্রাপ্তি— নির্বাক, নিস্তরঙ্গ এক অভিলাষের কক্ষাল।
জীবন যেন এক অনবরত প্রতীক্ষার স্থাপত্য
যার ভিত্তিপ্রস্তরেই লুকিয়ে অনুচ্চারিত পরাজয়।

চাই আমরা ঐশ্বরিক পূর্ণতা—
বিলাসী স্বপ্নের প্রতিদান্য হয়ে উঠি,
তবু রয়ে যায় কেবল অপূর্ণতার অনুষ্ণু,
অভ্যন্তরীণ ক্ষয়িষ্ণুতা— যাকে বলে ‘স্থির জীবন’।

বড় বেশি চাই আমরা— নিঃসন্দেহ সূর্যোদয়,
বেদনাহীন দিনলিপি, সংবেদনশূন্য সাস্থনা।
অথচ জীবন দেয়,
ক্ষয়িষ্ণু সম্ভাবনার মধ্যবর্তী সামান্য অবকাশ—
যাকে আমরা ভুল করে বলি “উবিষ্যৎ”।

বৈঁচে থাকা মানে,
এক সঙ্কুচিত শ্বাসপ্রশ্বাসে আগামীকালের অজানা মানচিত্র আঁকা,
আর এক টুকরো ভাঙা বিশ্বাসের আঁচলে
ঢেকে রাখা আজকের রক্তাক্ত চাহনি।

জীবন এক মহাকাব্যিক প্রতারণা—
যেখানে আমাদের স্বপ্নেরা নিজস্ব কবর খুঁড়ে নেয়,
আর আমরা, নির্বিকার কবি হয়ে,
অশ্রুকালি দিয়ে তারই শোকগাথা লিখে যাই।
শেষে...

আর একদিন, এই জীবনটাই হয়তো দাঁড়াবে আমার বিপরীতে—
ধূলিধূসর এক নির্বাক বিচারক হয়ে।
বলবে না কিছু... শুধু দেখাবে
সেই না-পাওয়ার অন্তর্গত সৌন্দর্য,
যা আমি চিরকাল অবজ্ঞা করেছিলাম।
আর আমি?

আমি তখন চোখ মেলে বলব—
“যা পেলাম না, তার গভীরতাই আমাকে সৃষ্টি করেছিল।
আমি যে বর্জ্য, তা নয়—
আমি কেবল ঐ অসীমের গল্পটা লিখে গিয়েছি,
যা শেষ হয় না, তবুও বেঁচে থাকে হৃদয়ের গোপনতম অলিন্দে।”

- Ankita Sarkar
3rd Year

একাকীত্বের সঙ্গী নেই

এই বস্তুতার পৃথিবীতে কত মানুষ আছে যে তোমার খোঁজ নেয় নিয়ম করে?

এই বস্তুতার পৃথিবীতে কত মানুষ তোমার ভালো থাকার কথা জিজ্ঞেস করে?

এই বস্তুতার পৃথিবীতে কত মানুষ তোমার নীরবতার ভাষা বোঝে?
এমনকি যাদের তুমি নিজের কাছের বলে ধরে রেখেছো, তাদের কজন
নিজেদের কথার শেষে তোমায় জিজ্ঞাসা করে—

“এই, তুই ভালো আছিস তো?”

কজন আছে যারা কাজ ছাড়া অন্য সময়ে তোমায় জিজ্ঞাসা করে—

“কি গো, কেমন চলছে সব কিছু?”

নেই...

তুমি খুব খোলামেলা মানুষ, সবার সাথে কথা বলো, হেসে খেলে;
তুমি হাসাও, তুমি গল্প বলো, তুমি গান গাও, তুমি নাচো;
ওরা দেখে, ওরা আনন্দ পায়, ওদের মন ভালো করার খোরাক তুমি।

কিন্তু দিনের শেষে এই তুমিই কিন্তু বড় একা;

যে মানুষগুলো সারাদিন তোমার আশেপাশে ছিল, যাদের তুমি খুশি
বিতরণ করেছিলে, সেই মানুষগুলো কিন্তু থাকবে না।

মানুষগুলোর সাথে সাথে আশেপাশের খুশির পরিবেশটাও হারিয়ে যাবে
রাত বাড়ার সাথে সাথে।

আর ঠিক সেখানেই দ্বন্দ্ব শুরু হবে তোমার মুখ আর মুখোশের সাথে।

তুমি প্রবলভাবে চাইবে ঐ মানুষগুলো তোমার খোঁজ নিক,
জিজ্ঞেস করুক তুমি কেমন আছো?
জিজ্ঞেস করুক তুমি কেন মনমরা?
জিজ্ঞেস করুক, আজ সারাদিন কেমন কাটালে?
কিন্তু এ কেবল তোমার চাওয়া মাত্র, পাবে না কিছুই...
এ না-পাওয়া তোমাকে ভেঙে ফেলবে, দুমড়ে-মুচড়ে তোমাকে পাটে
ফেলবে।
তুমি জলতেষ্টায় নিছক এক প্রাণের মত ছটফট করবে, মাটিতে লুটিয়ে
পড়বে।
চোখ দিয়ে তোমার গড়িয়ে পড়বে অবাধ অশ্রুধারা।
কিন্তু না, ওরা আসবে না, ওরা ফিরবে না, ওদের কেউই এসে তোমার
পাশে বসবে না।
তোমার মাথায় হাত বুলিয়ে জিজ্ঞেস করবে না—
“তুমি কেমন আছো?”
“তুমি কেন ভালো নেই?”
“তুমি কেন চুপ করে আছো?”
এরপর রাত শেষ হবে...
তুমি আবার মুখোশ পরে বেরিয়ে পড়বে শহরের রাস্তায়,
কোনো এক মানুষের ভিড়ে
হাসির ফেরিওয়ালা রূপে।

– Smriti Ghanty
2nd Year

ज़िंदगी : एक कश्मकश

अजब-सी कश्मकश ये ज़िंदगी एक राज़ होती है,
लगाती है गले हमको कभी नाराज़ होती है ।
कभी तो घोलती कड़वाहटों में राग सरगम के ,
तो अगले पल ही मानो ये जरा नासाज़ होती है ।

कभी लगता मुकम्मल हो रहे हैं ख़्वाब सब अपने,
कभी एक ख़्वाब को आँखें मेरी मोहताज होती हैं।
कभी सब रास्ते ये बंद कर देती है दुनिया के,
कभी खुद में ही एक दुनिया का ये आगाज़ होती है।

कभी तूफ़ान लाकर शोर करती है ये लहरों-सी,
कभी ठहरे किनारे सी ये बेआवाज़ होती है ।
कभी मजबूर करती है ये घुटने टेकने को भी ,
कभी आकाश से ऊंची मेरी परवाज़ होती है।

कभी होती है मेरी ज़िंदगी बेदाग कागज सी,
कभी उस पर लिखी ये सैंकड़ों अल्फ़ाज़ होती है।
जो ना सुलझे कभी ऐसी ही अनसुलझी पहली है,
अजब-सी कश्मकश ये ज़िंदगी एक राज़ होती है।

- Anurag Gupta
4th Year

प्रेम से हारी - नारी

जब सारे शस्त्र विफल हुए होंगे,
जब सामर्थ्य भी असफल हुए होंगे।
तब जाकर पुरुषों ने प्रेम का जाल बिछाया होगा,
नारी को वश में करने हेतु , ये अस्त्र चलाया होगा ।

फिर जकड़ा होगा उन्हें बेड़ियों में,
केशों को बाँध, पुष्प लगाए होंगे,
स्वयं से ही रक्षा हेतु संसार में,
नारी को अनेकों सीमाओं में बाँधा होगा।

नारी भी खूब इठलायी होगी,
स्वयं को भाग्यशाली बताई होगी।
प्रेम में स्त्रियों ने बेड़ियों को चूड़ियाँ और बंधे केशों को सौभाग्य ही माना होगा,
सीमाओं में सीमित रहने को मर्यादा जाना होगा।

और मान्य किया होगा, स्वयं पर अधिकार पुरुषों का ।
तब जाकर कहीं पुरुष प्रधान सत्ता समाज में आया होगा।

जो नारी निर्भीक थी , शौर्य से परिपूर्ण थी,
अंततः समाज ने तब उस पर चाबुक चलाया होगा।
पर उसकी अस्मिता पर यह चोट चाबुक से न आयी होगी,
निश्चित ही वह प्रेम में हारी होगी या प्रेम से हारी होगी।

- Ankita Sharma
4th Year

मज़दूर

मिट्टी में ही जन्म हुआ
मिट्टी की औकात है,
मेहनत उसका धर्म है
गरीबी उसकी जात है,
धर्म से, कर्म से... जन्म से
वह मज़दूर की औलाद है।

पिता का साया
मज़दूरी में खो गया,
माँ की ममता मजबूरी में,
धूप, आंधी, बरसातों में
ठिठुरती नंगी रातों में,
बिन छत बिन चादर के
जाने कैसे सो गया,
बिन कपड़े बिन रोटी के
वह बड़ा हो गया।

होश से पहले
सर पर ईंटें संभाल ली,
कंधों पर खुद से भारी
बोरियां डाल ली,
मज़दूरी मिली विरासत में
मेहनत उसके खून में है,
किस्मत में पाई लानत की
उसने आदत डाल ली है।

दुनिया का बोझा ढोते ढोते
वह रोज़ टूट कर थक चुका,
हारा टूटा दुर्बल तन
वक़्त से पहले पक चुका,
पर यह ज़ालिम भूख
रुकने नहीं देती,
रोज़ लौट आ जाती है
कमबख्त पेट जलाने,
जिंदा होने की याद दिलाने।

वह सपने नहीं देखता
हक़ नहीं है उसको,
वह रोज़ जीता है
ज़िन्दगी का ज़हर
रोज़ पीता है,
औरों के सपनों का
बोझ उठाता है,
और ढलती रात के साथ
रोज़ मर जाता है।

वह मजदूर है जनाब,
फिर उठ खड़ा हो जाता है।

- Harsh Shah
Batch - 2025

THE DIARY

'And so, $L.H.S = R.H.S$ '

Steve looked out of the window extremely bored. He never liked the maths classes. He was thinking of the cricket match that was going to take place that day. Just then the final bell rang. Steve was relieved. He grabbed his bag and sped out of the class. 'Oh, how nice the weather is today! They were going to have a wonderful match.' Steve was thinking when suddenly he tripped over something and fell. Disgustedly he looked back to find a diary. Steve took it in his hand. From its appearance it could be understood that the diary was an old one. There was no name on it. Steve opened it. On the first page was written "Morrison's" but there was no name.

Steve was a bit surprised. There was no one with the surname Morrison in their class, so who had left this diary. By this time almost all of Steve's classmates had left. Steve also thought of going back home. But something compelled him to go to the principal's room.

'Excuse me sir,' said Steve 'I found this diary outside our classroom, but I don't know anyone with the surname Morrison. Would you please help me find out who's this is?' At this Sir took out the names register and started searching and indeed there was no one called Morrison in their batch. Sir searched the names register of their previous batch and yet he could not find out someone with that surname. Like this, he continued, but that surname was not to be found even in the last ten years' names register. Steve was surprised to find such an old thing.

Next day in recess, Steve was reading the diary. It read '21st October, today a hilarious thing happened. I accidentally handed my history homework to my maths teacher and you should have seen her expression on seeing my copy. All the students laughed.' Steve was so engrossed in reading the diary that he didn't notice that recess was over and his maths teacher had arrived. 'Steve', she yelled, 'where is your homework?!' Steve almost jumped and handed her a copy from his bag. His teacher took it and flipped the pages to find the sums when suddenly her expression changed. 'Steve!! You are giving me your history copy in place of the maths copy' she yelled. Everybody present there started laughing but Steve fell silent. Just the same thing was written in the diary.

Steve wanted to check whether it was just a coincidence or something else. So, he read the diary even the next day. It read '22nd October, today I injured my left arm while playing badminton.' Steve was relieved. He was a badminton champ and besides he was right-handed. So, there was no chance of injuring his left hand while serving. Fearlessly, he went to enjoy a game of doubles with his friends. He was running to return the shot but he didn't notice that his partner was doing the same. He accidentally hit Steve's left arm instead of the shuttle. Steve cried out in agony. He was immediately taken to a bench to sit. Steve turned pale, not because of the pain but because the same thing was written in the diary!!

That day after reaching home Steve asked his mother whether she knew anyone with the surname Morrison who went to their school. After much thinking she said that many years ago she knew a family with the same surname and most probably their son went to the same school as Steve. She added further that one day that boy had gone to the school storeroom but didn't return. When the school called his parents no one received their calls. They weren't even in their houses. So, everyone thought that they had to leave the town because of some urgent work. Steve was a bit scared and decided that he wouldn't read the diary anymore and started unpacking his bag, when to his horror he found his water bottle missing! Surely, he had left it on the ground when he had poured water on his arm to stop the pain. His mother would surely scold him for his carelessness. He decided that he would ask the cleaner of the school the next day about it.

'Have you seen any bottle on the ground?' Steve asked the cleaner. 'Yes, I have' he replied 'I have kept it in the storeroom. You can take it today before leaving. Steve was relieved. That day, in the last period he took the teacher's permission and went to the storeroom. In his excitement of finding his bottle he didn't notice that he had also taken the diary with him.

And that was the last time anyone heard of Steve. He didn't return from the storeroom even after the final bell. The school authorities even called his parents, but no one received their calls. They weren't even in their houses. So, everybody thought that Steve had gone home just after hearing the final bell and his family had to leave the town because of some urgent work so they couldn't inform anyone.

- Thriti Sen
2nd Year

A TOUCHING TALE OF AN ORPHAN BOY

The only thing which he could expect in the years to come was a sign of improvement in his living conditions. Throughout his life, he had to wander in search of a shed which could protect him from the natural calamities which at times become so harsh for him to lift his weary body, when ultimately, he found his way to a tumble-down orphanage.

Society neglects that fellow and the government refuses to grant him the rights of a citizen for if they had done so he would not have to live such a hard life. He was deprived of the parental affection at an early age, due to which he was forced to stop studying. Circumstances threw him to the Streets, which became his only home from that day onwards. He tried to find some job but due to his illiteracy, everyone turned their backs upon him. Therefore, he had to steal to quench his hunger. He had no appetite or desire in this wordly life. He just wanted to be cheerful but in that struggle too he had to bear people's kicks and shouts, calling him 'THIEF!!!' He even had to spend a fortnight in prison on the charges of stealing, but who will understand that everyone does not become a thief willingly, circumstances force him to do so. However, his efforts did not go in vain for he ultimately found a poor orphanage where he got food and lodging for some days. But due to some unintentional fault, he was soon kicked... out of the place. With tears rolling down his cheeks, he went to seek the shelter of some other place but that could have been possible only if he had found a kind person in this rude world. But alas!!! He failed and there he slept with his body trembling with cold and his eyes half-closed which only after a moment, shut down forever, and WAS.... NEVER...TO.... OPEN... AGAIN. He was, however, happy to do so for he had no one to mourn his absence. After that I cannot explain what had happened to him for he had gone to an eternal slumber, getting relieved of the pain which the purgatory world had ever given for years so long. How unfortunate it was to him!!! But what can be done? After all, why will the Government forsake corruption for the betterment of such children like him???

- Shubhradeep Roy
3rd Year

CHICKEN SANDWICH

The rain beats on the roof with the sound of a thousand drums. I stare out the window at the overcast sky. It reminds me of my time in middle school, bleak and miserable. I try to drive the images out of my head. Having nightmares is bad enough – I do not want to relive those memories during the day.

I open my eyes and look at the time. It's 6 p.m. I don't remember falling asleep to the TV being switched on. I look for the remote and turn it off. I am starving so I make coffee and order takeout. My parents are out for the day – I am free to do as I please. I raid the fridge for leftovers and find some pancakes. I wait for the food to arrive and after a couple of minutes, the bell rings. I take the delivery and go up to my room. I put on X-Files and lay on the couch. It feels so comfortable. About two minutes into the show, my phone screen lights up. I pick up the call and my mother starts yelling into the speaker frantically. "Turn on the news Ria!" I ask her to calm down, and change the channel. For a while it shows usual stuff like the weather forecast and I am about to switch back to the previous channel, annoyed at my Mom, when the reporter starts speaking.

A convicted killer escaped from prison yesterday and is on the loose, going around knocking on people's doors, dressed as a delivery man. Two people from the surrounding neighbourhoods have been reported missing but no body has been found yet – the police are unaware of the killer's method of disposal of the bodies. A chill runs down my spine and I decide not to tell Mom about ordering food as I don't want her to freak out. I thank my lucky stars and go back to my show. Chewing on my chicken sandwich, I open Instagram to check my inbox. But all at once, a wave of nausea hits me and I run to the bathroom to puke out the contents of my stomach. The meat tastes strangely different.

– Alina Datta
2nd Year

THE WORLD'S
MOST
CREATIVE
CENTRE

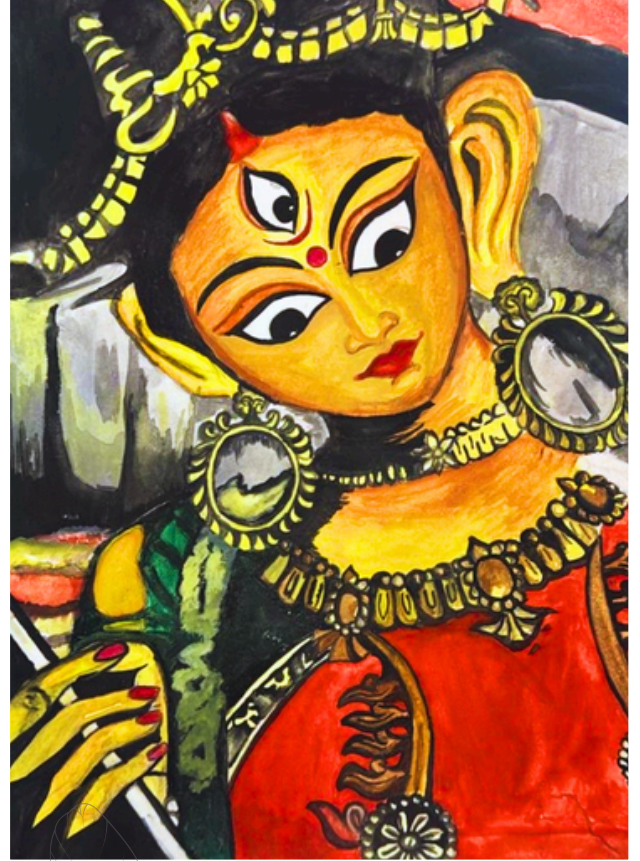
ENGINEERS WITH
FANTASTIC ABILITIES

UNPACKED:
COLOUR FOREST

Colour Conversations



Anushka Bose
2nd Year



Debolina Debnath
2nd Year

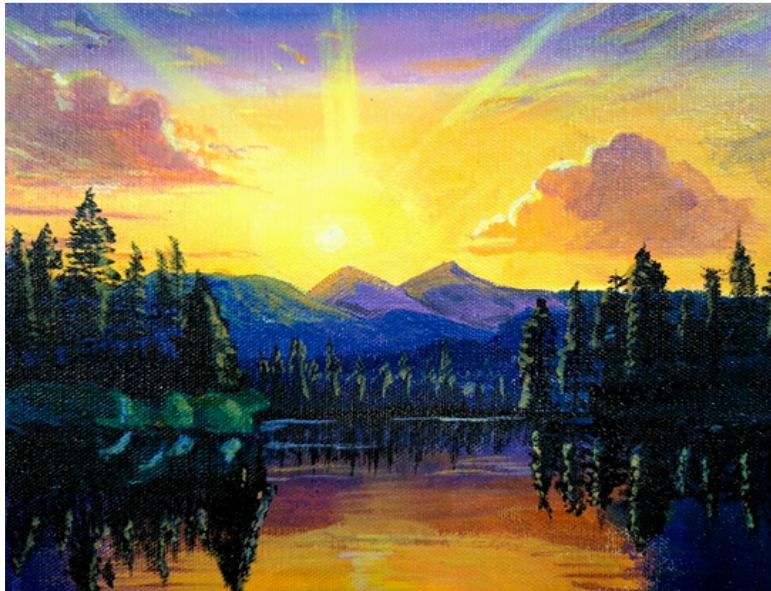


Anwasha Bhattacharyya
2nd Year

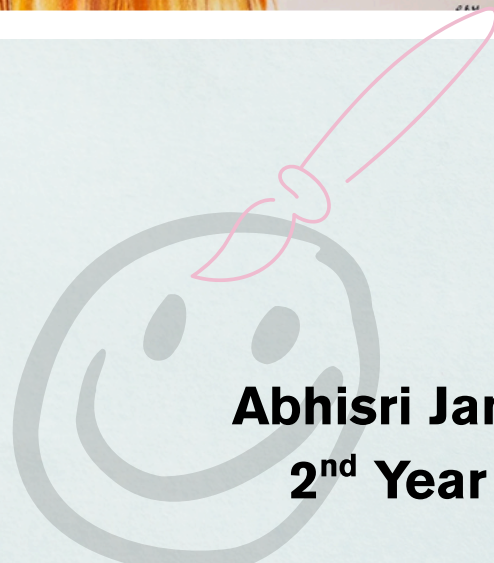


Ankita Das
Batch-2025

Riddhi Basu Mallick
4th Year



Abhisri Jana
2nd Year



Sumant Kumar Gupta
3rd Year

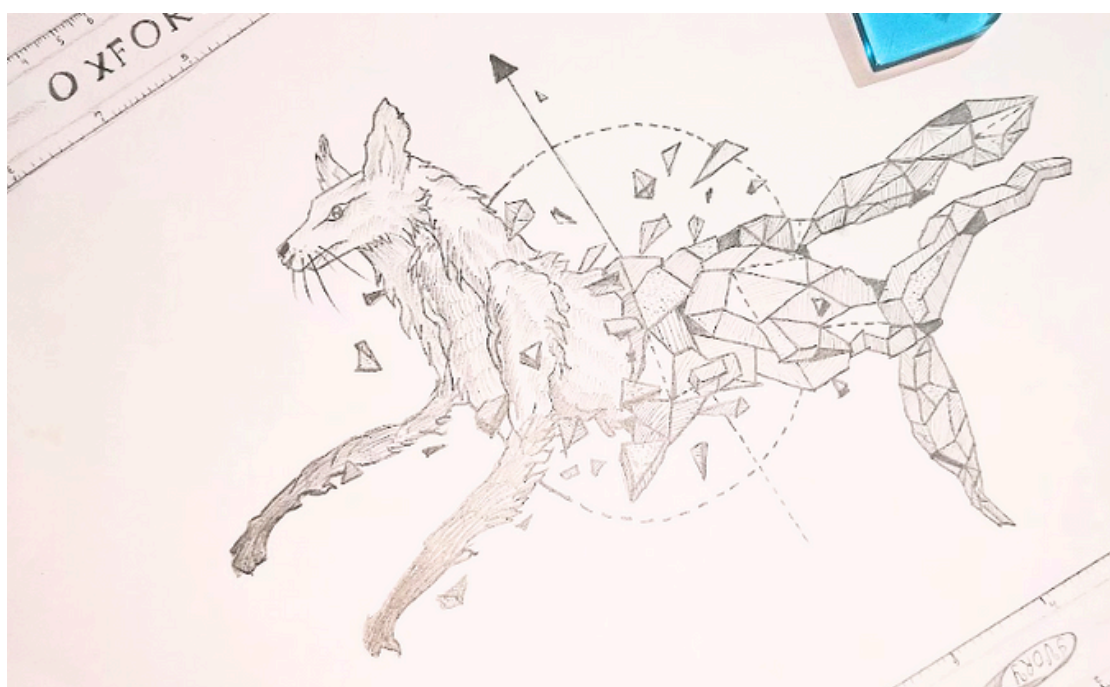




Anushka Nath
4th Year



Shubhradeep Roy
3rd Year



Sneha Agarwal
3rd Year

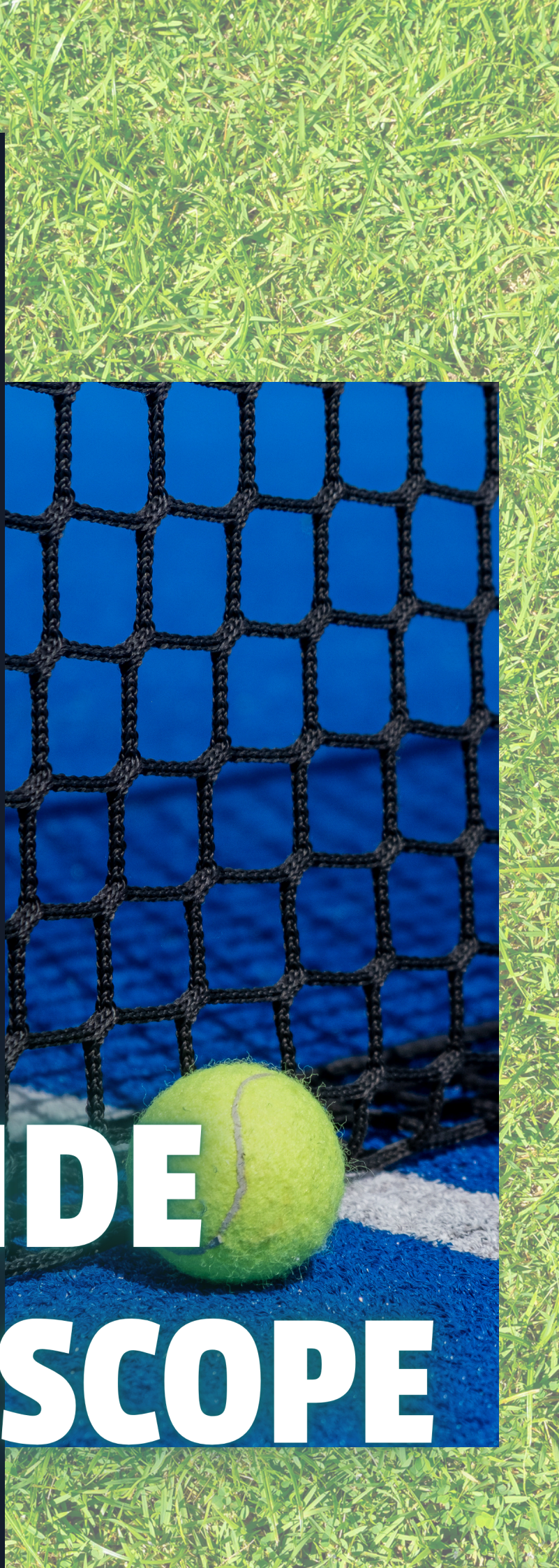
"The important thing in life is not the triumph, but the fight; the essential thing is not to have won, but to have fought well."

~Pierre de Coubertin

Sports Day is not just about winning or losing, it's about pushing limits and discovering strength within. It teaches us that 'victory belongs to the most persevering' and that 'hard work beats talent when talent doesn't work hard.' On this day, every athlete becomes a symbol of determination, teamwork, and resilience. "Champions keep playing until they get it right," and today, every student steps onto the field not just to compete, but to grow. "The pain you feel today will be the strength you feel tomorrow." Let this day remind us that success is earned in the sweat of practice and the courage of competition. May the spirit of sportsmanship continue to ignite unity and passion among us all.

'You don't have to be great to start, but you have to start to be great.' On this field, we learn that success is not just about crossing the finish line first, but about showing up, standing tall, and giving our best. Every drop of sweat, every fall, every comeback tells a story of courage. As teammates, rivals, and cheerleaders, we all become part of something bigger — a legacy of passion, unity, and pride. Because on Sports Day, it's not just about who wins, but about how we all rise together."

INSIDE SCOPE





Winning the "Department of the Year" award is a remarkable achievement for the Computer Science and Engineering (CSE) team, highlighting their dedication, innovation, and exceptional collaboration.

Congratulations to everyone involved for successfully balancing both studies and sports, showcasing their ability to excel in multiple areas simultaneously. This recognition not only underscores their hard work and commitment but also sets a high standard for future endeavors. Well done to the entire team for their outstanding accomplishments!





Winning an inter-department basketball tournament significantly uplift the name of a college, fostering a sense of pride and community among students and faculty.





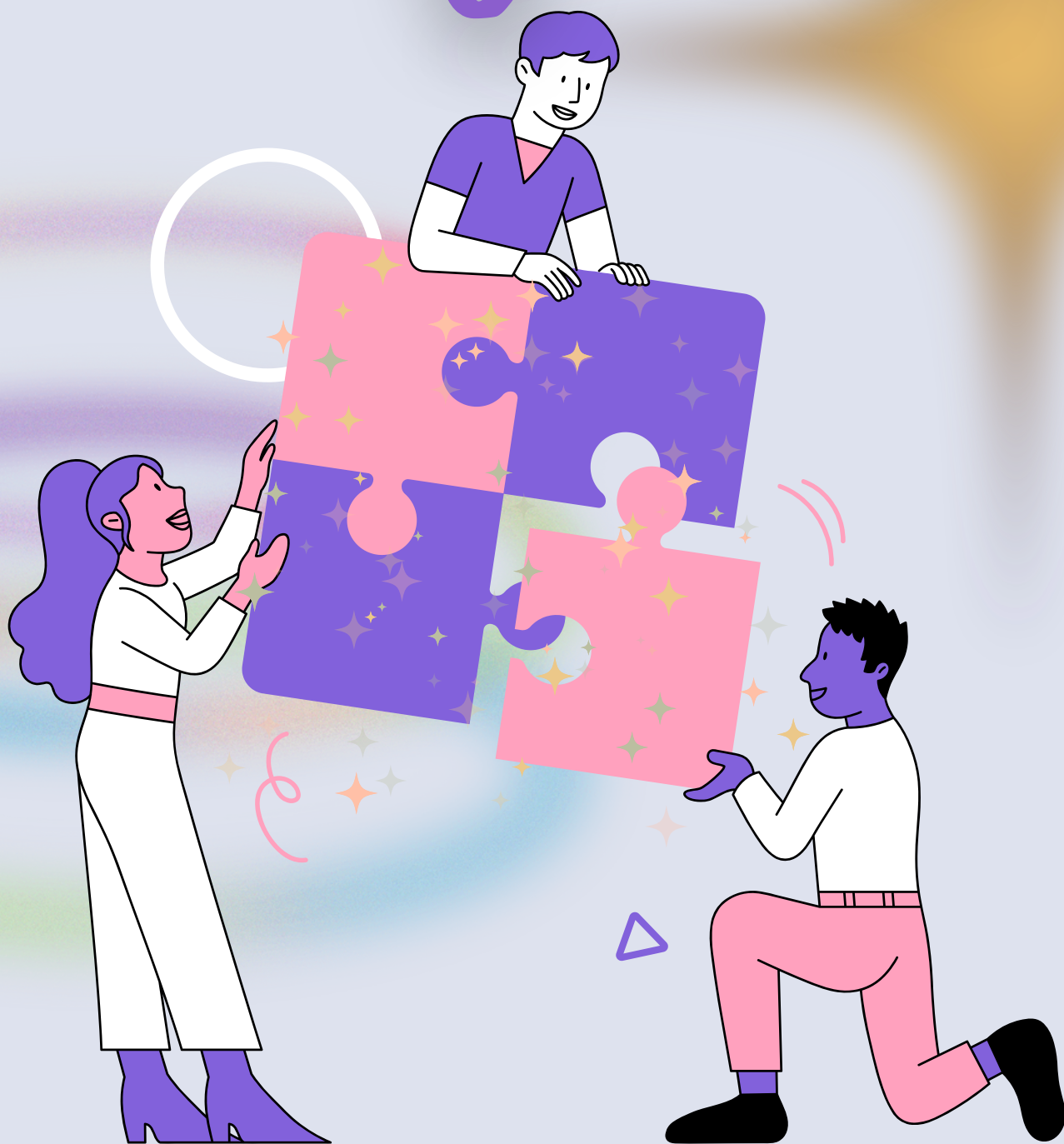
The inter-college women's cricket team, with their cheerful faces and vibrant energy, reflects the spirit of camaraderie and passion for the sport.



The Heritage men's basketball team has been making waves with their impressive performance on the court this season.

VICTORY

Vault





Summer Research Program at NJIT

- New Jersey's Science & Technology University

4th Year
KOUSHIKI DAS



Certificate of Appreciation

Harsh Shah

for securing *1st place* in Verse Wars Poetry Slam Competition which was held on the 21st of April, 2024

Juried by
Ms. Chaiti Nath

Sanghamitra De

Sanghamitra De
Secretary, LitSoc IIST

Richa Agarwal

Ms. Richa Agarwal
Chairperson, Kolkata Centre for Creativity



HARSH SHAH

Batch 2025

POETRY SLAM
COMPETITION
WINNER



ARMOUR

WOMEN'S SAFETY SYSTEM

ARMOR is an advanced women's safety ecosystem designed to provide reliable, rapid, and intelligent protection in any situation. Our offerings include:

- * The innovative safety application transmits real-time location and instant alerts not only to emergency contacts and law enforcement but also to verified nearby users, enabling immediate, crowd-assisted intervention.
- * The SafeSphere standalone device operates without internet connectivity or smartphone dependence, ensuring safety even in remote areas or during network outages.
- * AI-driven protection – integrates ECG-based distress detection and voice emotion recognition to trigger automatic SOS alerts when signs of danger are detected.
- * Evidence documentation—equipped with camera and audio recording features to capture critical proof during incidents.

ARMOR redefines women's safety by delivering always-available, technology-driven protection, ensuring that safety is a right, not a privilege.



NIRMITI 2024



HACKZ 2024

Nilanjana Dutta
CSE 3rd Year

Jibitesh Chakraborty
CSE 2024

Ashmit Paul
CSE 3rd Year

Mohak Sarkar
CSE 3rd Year

Sagnik Datta
AEIE 3rd Year

Anusha Pal
AEIE 3rd Year



HULT PRIZE ON CAMPUS 2025



CSE
HITK



STUDENT Innovation²

HOSTING VICTORY FLAG AT MICROSOFT CAMPUS



ALERTIFY

PROJECT OVERVIEW

Alertify is a smart disaster management system that combines real-time alerts, audio-visual detection, and coordinated relief efforts. It's designed to provide timely information and support during emergencies, helping responses reach effectively when every moment counts.

Let's take a closer look at how technology can quietly make a difference when it matters most.

TEAM PROFILE

ALOK RAJ
CSE 4th Year

MOHIT JENA
CSE 4th Year

KHUSHI BHARTI
CSE 3rd Year

PRIYANSHU PILANIWALA
CSE 4th Year





SHOWCASING TECH OF EMERGING TALENT



When the curtains rose at **Microsoft's Gurugram campus** on 1st February 2025, a talent of four computer science students from our college—**Mohit Jena, Alok Raj, Priyanshu Pilaniwala, and Khushi Bharti**—guided by the insightful mentorship of **Prof. Jhalak Dutta**, stepped onto the stage with more than just a project. They carried a **vision**.

Beating over 3000+ initial participating teams, only 20 made it to the national finals, and team **ALERTIFY** emerged **victorious**.

THE INSPIRATION BEHIND THEIR PROJECT?

The idea for this project was sparked by the growing frequency and severity of natural disasters around the globe. As the team observed, they recognized a crucial gap—an integrated, real-time system that could support both authorities and civilians throughout the three vital phases of disaster management.

This realization inspired them to create a unified solution capable of making a real difference when it matters the most.

WHAT PROBLEM DOES THIS PROJECT TARGET AND WHY IS SOLVING IT CRUCIAL?

Disasters can throw entire communities into turmoil, often because early warnings, clear communication, and coordinated relief efforts are missing. In the absence of a real-time, intelligent support system, precious lives are put at risk. Team **ALERTIFY** set out to change this by developing a practical and all-encompassing solution—one that unites essential technologies into a single, powerful platform to support those who need it most.

PURPOSE OF THE SOLUTION AND ITS IMPORTANCE?

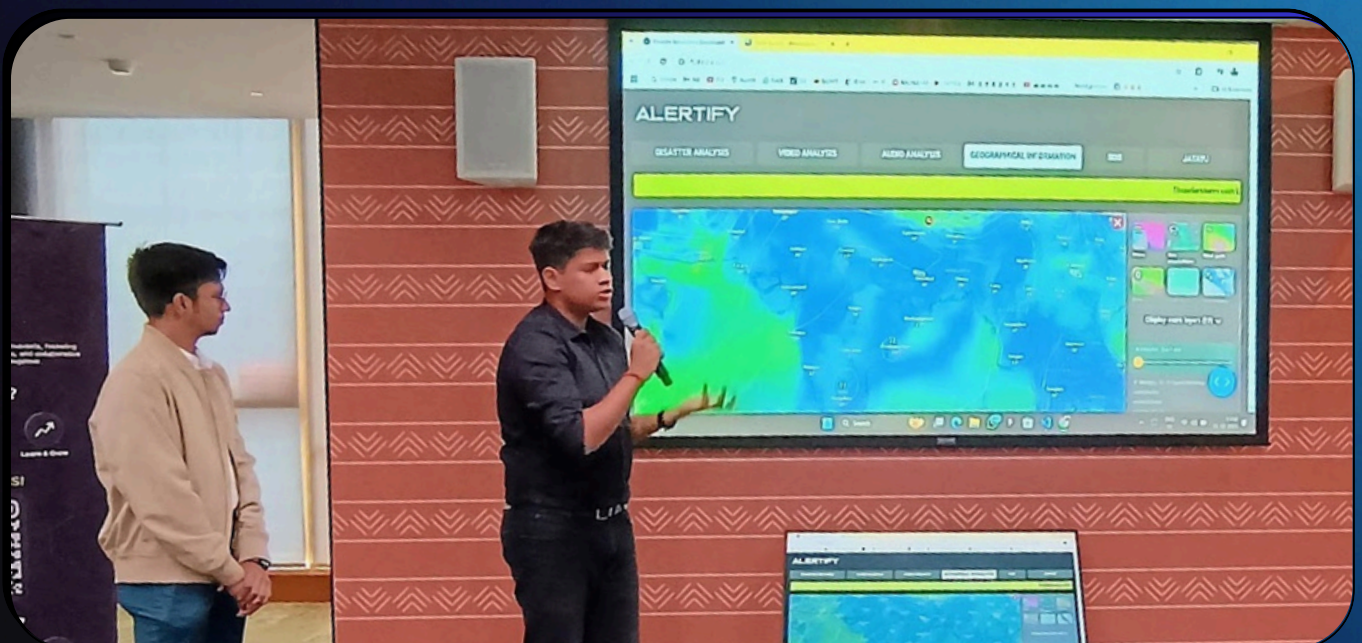
Alertify was created to bring order and support when disaster strikes. Too often, communities are left vulnerable due to scattered information, delayed warnings, and uncoordinated relief efforts. Our platform swiftly integrates technologies into a system that works across the stages of a disaster.

Before a disaster, **Alertify** monitors news, social media, and satellite data to provide early warning and predictive alerts.

During an emergency, it offers real-time detection of hazards, analyzes audio for distress signals, and enables instant SOS requests, ensuring help can reach without delay.

After the crisis, our system maps resources and uses a drone system (**JATAYU**) to deliver aid to affected zones.

By making crisis management proactive, **Alertify** empowers both authorities and civilians to coordinate better and ultimately save more lives.



CHALLENGES FACED BY TEAM **ALERTIFY**

Building an integrated, multi-modal platform within the limited time of a hackathon was challenging. Having faced unstable internet at the venue, which made accessing live data difficult, and struggled with complex API integrations to ensure real-time information flow. Synchronizing satellite data with on-ground audio and visual inputs added further complexity.

To overcome these obstacles, we divided tasks according to each member's strengths and maintained constant communication. Collaborative problem-solving and persistence helped us work through technical issues, often late into the night. This teamwork enabled us to deliver a working MVP that met the expectations of both the judges and the audience.

TECHNOLOGIES INVOLVED AND THEIR USE CASE

The team employed a robust stack, selected for its real-time capabilities and flexibility:

- **Python, TensorFlow, and OpenCV** – for core AI and machine learning functionality.
- **Plotly Dash** – to build a dynamic and responsive user interface.
- **Live satellite mapping APIs** – for geospatial data and visual analysis.
- **Web scraping tools** – for collecting real-time social media and news alerts.

This stack allowed them to build and deploy multiple features quickly while ensuring system stability.

TACKLING TECHNICAL HURDLES ON THE GO

Integrating audio distress analysis with object detection, and then syncing these results with satellite data in real time, was by far the most complex task.

The team had to iterate through multiple rounds of debugging to ensure seamless communication across modules.

But the effort paid off—this very feature was among the most appreciated by the judges.

WHAT ABOUT INNOVATIVE FEATURES? IS THERE ANY?



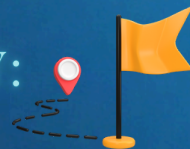
Any? Innovation is at the heart of **Alertify**. The platform stands out for its human-centered approach to disaster relief, with **Jatayu**—the drone-powered relief coordination system—as a true highlight. By deploying drones, **Alertify** ensures that aid can reach even the most remote or cut-off communities.

Its suite of features—ranging from live dashboards and automated SOS messaging to AI-driven monitoring and resource management—helps responders stay ahead of crises.

Alertify's ability to gather and interpret real-time information from a variety of sources makes it an essential tool for modern disaster management. If this isn't innovation, what is?



ENVISIONING THE FUTURE OF ALERTIFY: EVOLUTION BEYOND THE HACKATHON



The team sees **Alertify** growing well beyond the hackathon. They plan to work with NGOs and government agencies to test it in real disaster-prone areas. Looking ahead, they want to add features like multilingual emergency alerts, satellite phone support, and ready-to-deploy drone fleets. For them, it's not just about building smart technology—it's about making a real difference on the ground.

The journey of Team ALERTIFY is a glowing example of how students, when driven by purpose and backed by the right mentorship, can turn ideas into tools that serve humanity.

HOSTING VICTORY FLAG AT STATUS CODE



KNOWIDEA

BUILDING
BUSINESS
PARTNERSHIPS

INNOVATION 2

KnowIdea



TALK WITH TEAM KNOWIDEA



KnowIdea is a web platform designed to solve one of the most fundamental challenges in the startup ecosystem: finding the right co-founder. Powered by AI and built with secure, scalable architecture, **KnowIdea** intelligently matches aspiring founders based on personal goals, technical and business interests, and collaboration compatibility. It even allows users to formalize their partnerships via blockchain-based contracts, creating a seamless path from idea to execution.

Let's explore how technology can help ideas find their perfect match with team **KnowIdea**.



WHAT INSPIRED THIS PROJECT?

The team **KnowIdea** observed a common yet critical pain point in the startup ecosystem—finding like-minded visionary co-founders.

Existing platforms like LinkedIn weren't purpose-built for startup matchmaking.

This inspired them to create a dedicated, AI-powered solution that would not just connect people but match them meaningfully.



TEAM PROFILE

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CSDS 4th Year

Subham Banerjee
CSE 4th Year

Bharat Kumar Jhawar
CSE 4th Year

Devjit Sarkar
CSE 4th Year



THE PROBLEM AIMED TO SOLVE AND WHAT DOES **KnowIdea** DO?

Building a startup begins with building the right team. Yet, for many aspiring entrepreneurs, finding a compatible co-founder is both difficult and risky.

The project tackles this common but tough challenge for many entrepreneurs: finding the right co-founder. But it's often hard to find partners whose skills, values, and goals truly align.

Traditional platforms like LinkedIn aren't designed for this, making the search slow and uncertain. Poor matches can lead to conflicts or even cause startups to fail early.

KnowIdea is an intelligent platform that helps aspiring founders discover, connect, and collaborate with potential co-founders. This helps founders focus on building their ideas together with confidence, improving their chances of success

To fix this, **KnowIdea** uses AI to match founders based on shared vision, goals, skills, and working styles, turning a guesswork process into a thoughtful, data-driven one. The process is simple: users create a profile, share their goals and background, and are matched via a machine learning-based similarity engine.

It also adds a layer of trust by letting co-founders formalize their agreements securely through blockchain contracts.

CHALLENGES FACED BY KNOWIDEA



Building KnowIdea came with its fair share of technical challenges. Creating a seamless multi-service architecture that connected a Next.js backend, a FastAPI-powered ML engine, and real-time authentication through Clerk was no small feat. On top of that, integrating Neon DB with Drizzle ORM and adding blockchain interoperability for smart contracts expanded the project's complexity even more.

Despite these hurdles, the team stayed focused and collaborative, tackling each challenge with modular design, clear task division, and continuous integration. Their dedication not only ensured a stable and scalable platform but also turned obstacles into opportunities for growth and innovation. This journey truly reflects how persistence and teamwork can transform ambitious ideas into reality.



TECHSTACK OF KNOWIDEA

To balance performance, flexibility, and integration ease, the team selected the following tools:

- Next.js – For building a unified frontend and backend.
- Clerk – For secure user authentication.
- FastAPI – To serve machine learning-based matching tasks.
- Drizzle ORM + Neon – For type-safe database interaction with PostgreSQL.
- BERT-based models – For semantic similarity and user profile matching.
- Blockchain – For smart contract-based co-founder agreements.

Each technology was carefully chosen to serve a specific need while keeping the platform fast and extensible.

TECHNICAL HURDLES CONQUERED

One of the biggest challenges the team faced was ensuring secure and seamless communication across multiple services. Managing real-time, authenticated data flow between Clerk (auth), FastAPI (ML engine), and Neon DB required careful coordination to prevent data mismatches or security gaps.

The team worked meticulously to avoid any data leaks, inconsistency, or sync issues.

INNOVATIVE FEATURES

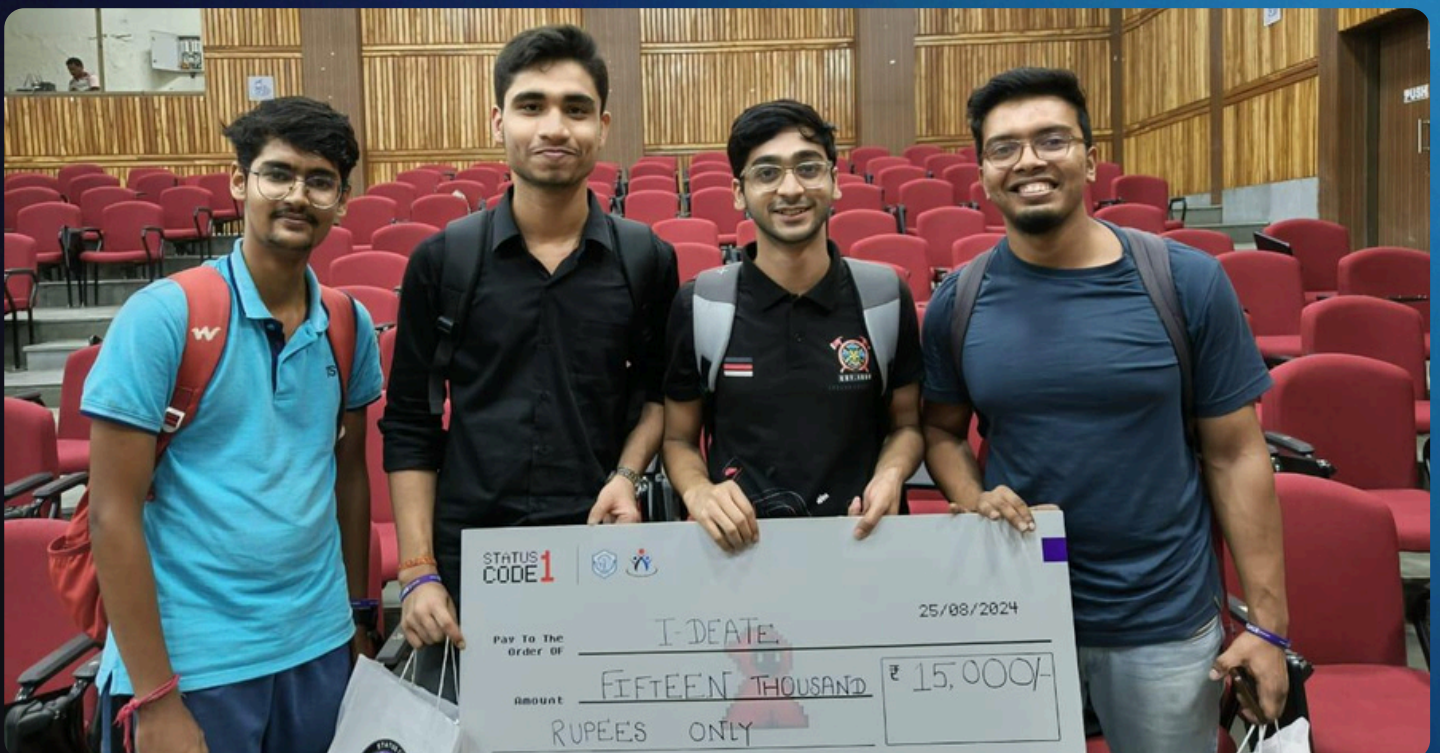
KnowIdea goes beyond typical networking platforms.

What truly makes it stand out is its dual-match approach—pairing founders by both skill and mindset. With built-in blockchain contracts to formalize partnerships, KnowIdea brings trust and innovation into one seamless experience.

FUTURE OF KNOWIFDEA

The team plans to roll out a closed beta, gather feedback from early users, and enhance the matching system further.

Their vision is ambitious yet clear: to make **KnowIdea** the go-to platform for forming startup teams. Team **KnowIdea** is turning ideas into action—and reshaping how founders connect.



HITECH

EDITORIAL TEAM



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**HI, I AM CHANDAN KUMAR
SINGH. NICE 2 MEET YAA!**



**AND MYSELF ANUSKA
BOSE**



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