

Highlight of the Issue

Leading the Next Wave of
Healthcare Transformation



Silicon University



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SLATE

Silicon Language for Arts Technology & Education

**Our Vision: To become a center of excellence in the fields of
technical education & research and create responsible citizens**

From the Editor's Desk...

Dear Readers :

Do you remember those five magic words we were once taught in our primary schools - thank you, sorry, please, excuse me, and welcome? We learnt them word by word but perhaps forgot to put them to practice while we were busy growing up. Today let us remind ourselves of one of the virtues that these words taught us – gratitude.

Although these two words, thankfulness and gratitude, are used interchangeably, there is a difference between the two when it comes to their use. 'Thankfulness' is an immediate reaction to a specific action. It can be momentary in nature. But when thankfulness is recognized deep within yourself it lives with you as a long-term state-of-being, creating a deeper internal mindset where you notice the good things that you are blessed with or others do for you. Saying thank you is the first step.

Express gratitude today and life can completely change in a moment. Grab the opportunity to express thankfulness and gratitude when the moment arrives. So let us not wait for a 'tomorrow' to express our gratitude because a missed opportunity might leave you with a regret for a lifetime in not being able to thank the person or the universe for all the generosity endowed upon you. As Melody Beattie writes, "Gratitude unlocks the fullness of life. It turns denial into acceptance... It can turn a meal into a feast, a house into a home, a stranger into a friend".

Gratitude journaling has gained quite a popularity these days. It is a very effective tool to capture all the good things that happen to us, before they are lost to death, distance or a drift in relationship. Building this meaningful practice involves a three-step structure for your entries. First: 'The Bestowal' – where you write about the specific moment or a person that left a deep and long-lasting impression on your mind. Second: 'The Specific Detail' – describe the occurrence or the incident responsible for the lasting mental imprint. And Thirdly: 'The Lasting Impact' – reflect on how it changed your mindset dwelling on the important happenings. 'Gratitude Journaling' can be practiced on a daily basis where you pen down important events of the day and express your gratitude without waiting for any marked or specific event of your life. It helps you identify your life lessons which difficult times have taught you. Think of the time when someone said a "thank you" to you - how did it make you feel?

Let us then not delay in sharing a big 'thanks' and a heartfelt gratitude to the universe for this miracle called "life" and in helping us sustain it.

Happy Reading!

Ananya Roychoudhury
Assistant Professor, BSH

EDUCATING US

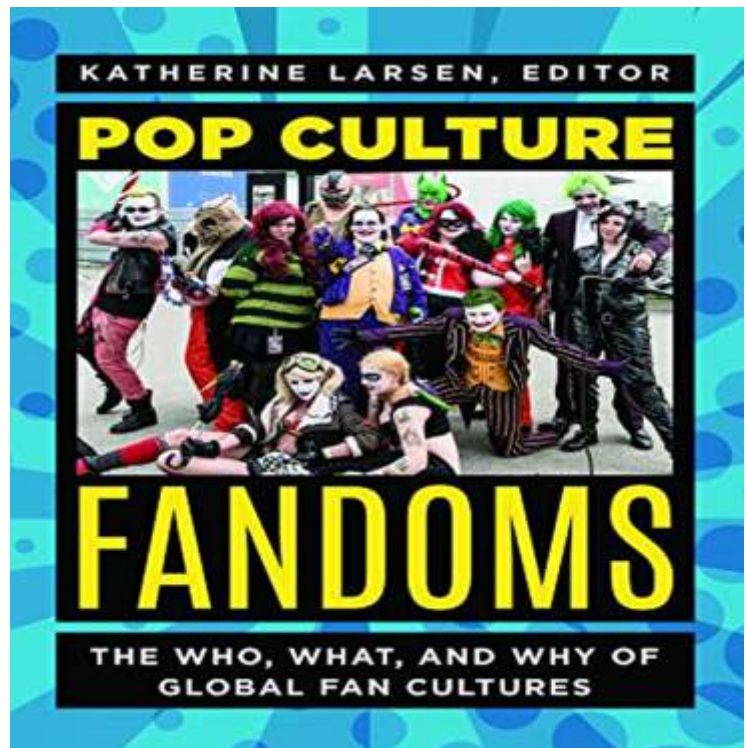
Pop Culture and Fandoms: Where Passion Ends & Obsession Begins

If we look at today's pop culture landscape, it is no longer just entertainment. It has become an identity. From global music acts like BTS to blockbuster franchises by Marvel Studios, and trends born overnight on social media, what we consume increasingly shapes how we see ourselves and others.

At the center of this culture lies the fandom. Fandoms are not just audiences. They are its backbone. They give the content meaning by engaging with it through trending hashtags, streaming content, defending their favorites, and even influencing public narratives. For many young people, these communities offer something beyond entertainment, a sense of belonging. In a fast-paced and often isolating world, fandom spaces create connections where individuals feel seen, heard, and understood.

However, every coin has two sides. The line between passion and obsession is thinner than ever. A small disagreement can quickly escalate into online conflict, and criticism is often mistaken for hate. When viewed through a real-world lens, artists are human too. They face scrutiny, and at times, that criticism can be valid. Yet platforms like Instagram and Twitter amplify reactions, turning conversations into outrage and sometimes something far more toxic.

This raises an important question. Are we still enjoying pop culture, or performing our loyalty to it? The constant pressure to stay updated, defend opinions, and always participate can quietly turn



entertainment into obligation. What begins as interest can slowly evolve into identity, and identities are far harder to step away from.

Fandoms are not inherently negative. They can be creative, supportive, and even socially impactful. Yet, they also reveal how easily digital culture blurs the line between personal identity and public performance.

The challenge is not to disconnect, but to engage consciously. To enjoy without over identifying, and to belong without losing individuality. Because pop culture should influence us, not define us.

M. Zuhayer Labeeb
4th Sem., ECE

HEALTH WATCH

Fibromyalgia: The invisible ache within

Imagine waking up only to find your muscles aching, your energy drained, and even basic tasks feeling overwhelming, as if you never really slept. Fibromyalgia, a disorder that profoundly affects daily living but leaves no obvious scars, may be the cause of that quiet battle. This is a long-term condition that has a significant impact on day-to-day living but doesn't necessarily manifest externally.

Fibromyalgia is a chronic pain disorder primarily characterized by extensive musculoskeletal pain, frequently paired with fatigue, cognitive issues, sleep problems, and mental health symptoms like anxiety and depression. It isn't caused by a visible injury, instead, the brain and spinal cord become extremely sensitive, increasing pain signals so that even minor sensations feel powerful. Symptoms may begin after stress, illness, or trauma, or slowly build over time without a clear reason. People with fibromyalgia usually experience symptoms that come and go in periods called flare-ups. Women and people older than 40 are more likely to be diagnosed with fibromyalgia.

Implications and Risks:

- **Persistent Fatigue:** Even after long hours of rest, the body feels exhausted due to poor-quality sleep.
- **"Fibro Fog":** Trouble focusing, remembering things, or thinking clearly in daily tasks.
- **Emotional Impact:** Living with constant, invisible pain can lead to anxiety, stress, and depression.
- **Widespread Pain:** A constant dull ache affecting multiple parts of the body, sometimes worsening with stress or activity.



- **Daily Limitations:** Routine activities like attending classes, walking, or even socializing can feel physically and mentally draining.

Dealing with Fibromyalgia:

- **Medical Care:** While there is no cure, medications and therapies can help manage pain and improve quality of life.
- **Lifestyle Adjustments:** Gentle exercise, proper sleep habits, and stress reduction techniques are essential.
- **Support Systems:** Counseling, peer support groups, and understanding friends and family can ease the emotional burden.

Despite being undetectable to the naked sight, fibromyalgia has a significant impact. With patience, awareness, and the right support, individuals can learn to listen to their bodies, adapt their pace, and still build a life filled with strength, meaning, and resilience.

Priyambada Dash
4th Sem, CSE

FOOD FOR THOUGHT

The Weight of Infinite Light: When Everything Demands Our Attention

When was the last time you truly sat with a single moment?

We live in an era where we can witness almost anything, anywhere, at any time. News, celebrations, disasters, opinions, and entertainment flow ceaselessly through our screens. While this constant access has made us more informed than any generation before us, it has also changed the way we experience the world.

There was once a natural rhythm to information. News travelled slowly, distance imposed limits, and night offered a pause from the demands of the day. Today, these boundaries have dissolved. Information no longer arrives in intervals. It arrives continuously, leaving little room for reflection.

The Endless Stream

Our phones have become windows to the entire human experience. Within minutes, we may scroll past images of war, a friend's vacation, an environmental catastrophe, and a stranger's grief. Each image appears with the same urgency before being replaced by the next.

The issue is not that we know too much. It is that we rarely have enough time to absorb what we know. The world fragments into an endless succession of moments before meaning has the chance to settle.

The Limits of Human Empathy

Technology has expanded the reach of our attention, but not its capacity. Psychologists describe fatigue as the emotional exhaustion that follows repeated exposure to suffering. We do not



stop caring because we are indifferent. We stop caring because the mind, overwhelmed by constant exposure, learns to protect itself.

Choosing Presence

Stepping away from the endless flow of information is not an act of ignorance. It is an act of preservation. Silence creates space for reflection, allowing experiences to settle into memory instead of being swept away by the next notification.

Perhaps the greatest challenge of the digital age is not learning how to access more information, but learning how to preserve our capacity to be moved by it. There is something more unsettling than ignorance: to witness everything the world reveals, and yet gradually lose the ability to feel the weight of any of it.

Snigdha Shree Giri
2nd Sem , ECE

PROFILE OF AN ORGANISATION

SAP Labs: Intelligence in Motion

Overview

SAP was established in April 1972 by five engineers who had previously worked at IBM—Dietmar Hopp, Hasso Plattner, Klaus Tschira, Hans-Werner Hector, and Claus Wellenreuther. They aimed to move away from traditional batch-processing methods by designing systems capable of handling business data instantly, improving both speed and accuracy.

In its early years, the company operated under the name *Systemanalyse und Programmentwicklung*. Its initial product focused on real-time financial accounting, which later became the foundation for Enterprise Resource Planning (ERP) systems. Throughout the 1980s and 1990s, SAP expanded its presence worldwide and built a strong reputation as a trusted provider of enterprise software. Over time, it adopted the name SAP SE.

To support ongoing innovation, SAP developed SAP Labs as a global network dedicated to research and development. One of its most significant centers, established in Bangalore in 1998, evolved into a major hub for engineering, product development, and technological advancement.

Business Model

SAP concentrates on creating enterprise software solutions, including ERP platforms, cloud-based services, and data analytics tools. Its primary sources of income include software licensing, subscription-based cloud offerings, and maintenance services. SAP Labs contribute by continuously improving products and driving innovation across international markets.



Targets and Objectives

SAP seeks to strengthen its leadership in cloud technology while expanding the use of artificial intelligence within its solutions. The company emphasizes building smart, sustainable, and user-focused digital systems, along with increasing its global footprint and delivering long-term value to customers.

Achievements

SAP is recognized as one of the leading enterprise software providers globally, serving organizations across many sectors. Its ERP solutions have significantly influenced how businesses operate, and its commitment to innovation and reliability has helped maintain its strong position in the technology industry.

Conclusion

SAP's growth from a small start-up into a global technology leader demonstrates the importance of continuous innovation and the ability to adapt to change. With the support of SAP Labs and ongoing advancements in technology, the company continues to influence how modern businesses operate. Its focus remains on developing intelligent, sustainable, and customer-oriented solutions that meet future demands.

Neham Nishesh

2nd Sem, CSE

MENTAL HEALTH: You are overreacting!

You express sadness that your friend forgot your birthday. Your friend responds: "It's just a date; you're overreacting and being way too dramatic."

"You are overreacting" is a classic manipulative tactic used to deflect blame and invalidate someone's feelings. By criticizing individual emotional response, the manipulator shifts focus away from their own poor behaviour. This tricks an individual into doubting his/her own reality and feeling guilty for standing his/her ground.

Gaslighting is a severe form of psychological and emotional abuse where a perpetrator manipulates a victim into questioning their own memory, perception of reality, or sanity. In the 21st century, it extends beyond intimate relationships into digital disinformation and medical settings, leading to profound psychological deterioration. Gaslighting in relationships is a form of emotional abuse and psychological manipulation. The ultimate goal is to gain control, avoid accountability, and make the victim dependent on the abuser. It becomes easy for someone with power to exercise control over an individual's feelings and behavior. By targeting the victim's emotional response, the gas lighter forces the victim to doubt their own reality and feel guilty for bringing up a legitimate concern. When abusers use phrases like "you are overreacting," "you're too sensitive," or "that never happened," it erodes self-trust and forces the victim to internalize the blame. Recognizing this pattern as an emotional red flag is the first step towards regaining your footing and reclaiming your reality.

This psychological manipulation typically leads to chronic anxiety, persistent depression, and a



dramatic drop in self-esteem. Long-term effects often include severe trauma, social isolation, and hypervigilance. According to psychological insights, victims of gaslighting often exhibit mental health side effects like self-doubt, chronic stress, panic anxiety attacks, feelings of worthlessness. Victims often withdraw from friends and family because they feel misunderstood or fear the gas lighter's repercussions.

Brain scans of long-term abuse survivors show cognitive impairment like constant psychological stress fatigues the brain, leading to poor concentration, memory gaps, and difficulty trusting one's own instincts. Paradoxically, the brain's heightened vigilance becomes unreliable, making the victim unable to confidently identify safe versus unsafe situations which leads to Impaired Threat Detection.

Healing is a step-by-step process that focuses on cognitive restoration and emotional safety. To support someone recover from gaslighting side effects, offer non-judgmental validation of their experiences, encourage them to rebuild self-trust making small independent decisions and help them connect with a licensed, trauma-informed therapist for specialized guidance.

Ms. Rupanwita Mohapatra
Counselling Psychologist

IN CONVERSATION WITH NEW MINDS...

Dr. Arnab Pal

This issue of Faculty interaction brings to you insights from Dr. Arnab Pal, Assistant Professor in the Department of Electrical and Electronics Engineering at Silicon University, Odisha. Since joining the institute in 2022, Dr. Pal has been actively engaged in research on power systems, renewable energy, and electric vehicle infrastructure. Beyond teaching and research, he serves as the Faculty Coordinator of the Industrial Research and Consultancy Cell and is an active member of the ED Cell and Institution's Innovation Council (IIC). In this conversation with Sarbani Devaprita (4th sem CSE), he shares his academic journey, research interests, and thoughts on the future of sustainable energy and engineering education.

Sarbani: Sir, your academic path has taken you from NIT Agartala's Ph.D. program to teaching here at Silicon University. Could you walk us through your journey?

Dr. Pal: My interest in Electrical Engineering began during my undergraduate studies, where I was fascinated by how electrical power systems form the backbone of modern society. This curiosity motivated me to pursue higher studies in the field, eventually leading to my Ph.D. at NIT Agartala, where I specialized in power systems with a focus on renewable energy integration and optimization techniques.

Joining Silicon University in 2022 has been a rewarding experience for me. The university provides an excellent platform to combine teaching, research, and industry collaboration. I have had the opportunity to work on consultancy projects with leading industries as well, which has



helped bridge the gap between academic knowledge and real-world engineering challenges. This balance of teaching, research, and practical exposure continues to inspire me every day.

Sarbani: Your research heavily focuses on electric vehicle charging infrastructure and distribution networks. What drew you to this area, and why do you think it's important at present?

Dr. Pal: The global transition toward clean and sustainable transportation is one of the most significant technological shifts of our time. While electric vehicles offer enormous environmental benefits, their large-scale adoption also creates new challenges for power distribution networks, such as increased demand, voltage fluctuations, and charging management.

My research focuses on developing intelligent and sustainable solutions that enable EV charging infrastructure to integrate seamlessly with

renewable energy resources and existing power systems. I believe this area is extremely important because the future of transportation and the future of the power grid are becoming increasingly interconnected. Research today will help create a more reliable, efficient, and environmentally friendly energy ecosystem for tomorrow.

Sarbani: Looking at how fast the energy sector is changing, what excites you most about where this field is headed in the next few years?

Dr. Pal: What excites me the most is the rapid convergence of renewable energy, electric mobility, energy storage, artificial intelligence, and smart grid technologies. We are moving from conventional power systems toward intelligent, decentralized, and digital energy networks. Over the next few years, I expect significant advancements in battery technology, hydrogen-based energy systems, vehicle-to-grid (V2G) integration, and AI-driven energy management. These innovations will not only improve efficiency and reliability but also accelerate the global transition toward a cleaner and more sustainable energy future. For young engineers, this is an exciting time because they have the opportunity to contribute to technologies that can make a real societal impact.

Sarbani: Given your association with the ED Cell and IIC, how important do you think fostering innovation and entrepreneurship is for engineering students today?

Dr. Pal: Innovation and entrepreneurship have become essential qualities for engineers. Today's engineers are expected not only to solve technical problems but also to identify opportunities, develop practical solutions, and create value for society.

Through the ED Cell and the Industry Interface Cell (IIC), we encourage students to think beyond textbooks, interact with industries, work on real-world problems, and develop innovative ideas. Even if students choose conventional career paths, an entrepreneurial mindset helps them become better problem-solvers, leaders, and decision-makers. Such exposure also enhances their confidence, creativity, and adaptability in a rapidly evolving technological landscape.

Sarbani: What advice would you give students who want to pursue research in power systems or renewable energy?

Dr. Pal: My advice to them is to first build a strong foundation in the core subjects such as electrical machines, power systems, power electronics, and control systems. At the same time, become comfortable with simulation tools, programming, and data analysis, as these skills are increasingly important in modern research.

Stay curious, read quality research papers regularly, and never hesitate to ask questions. Try to participate in internships, industry projects, and research activities whenever possible because practical exposure complements theoretical learning. Finally, remember that research requires patience, consistency, and perseverance. Not every experiment or idea will succeed immediately, but every challenge is an opportunity to learn and improve. If you remain passionate and committed, the field of power systems and renewable energy offers tremendous opportunities to contribute to a sustainable future.

Sarbani Devaprita
4th Sem, CSE

STUDENTS' CORNER

The Free Caged

With the heaviness of the soul,
Days drained with burdens untold.
Unraveling the threads of foul
Restlessness in the conduct, sounds cold.

Chirps for the freedom,
Growls from the core,
Gazing through the darkness of fear,
Finding a way out of such endure.

The rods yet stood tightened,
The latch fastened to the lock,
Still waiting for the boundless horizon
The endeavor she usually dreamt of.

Hums melodies through the pain,
Soothes the encompassing expecting no gain.
Her wings ache hard through the fight
Constantly trying hard to fly out every night.



Then comes a day of endless happiness,
She wanders high up in the heavenly sky,

With white wings swaying freely in air,
As spirit broke the skin to fulfill the desire.

Rashika Das
6th Sem, EEE

Thoughts of A Burning Star

In the ephemeral sky, I burn,
Aureate affectations adjourn,
The cycle of life, so dire,
Every soul, ostensibly lurches in ire,
A silent jeremiad, clouds of thoughts,
Conveys the mortals, of the tepid knots,
For I too, forlorn, had to hold on strong,
For Isn't this where we inevitably belong?

Indeed, all ours, the air, water, soil and soul to
grieve,
Dreams collapsing and rising in the urge to live,
There are felicity and fear, repeated through
years,
A labyrinthine journey of hopes and halts
perseveres,

Let dolor and delight both find a place,
Eventually, sorrows do bend into solace,
Misery too, morphs into mirth
Nothing lingers for ruins, it all sketches rebirth,

It's similar for each being in existence,
So, who are you to evade 'living' this insistence?
For one day, you'll understand the truth that we
share:

We fall into nothingness but also into
everywhere.

Aradhana Dash
8th Sem, CEN

Perhaps, Back Then

Perhaps that person, back then,
had only one possible ending,
a story that refused to begin
before it learned how to breathe.

From the first hello,
the first asking of a name,
from a gaze that stayed behind
when everything else moved on.

Perhaps that person, back then,
is already an impossibility,
returning only to speak
with the version of me who still hoped.

From sunset into the deep of night,
we shared a borrowed warmth,
yet only at dawn did I understand
what goodnight was meant to take away.

It turns out fate speaks
in the voices of those who endured it,
quietly asking the future
to wait—just a little longer.

Today, there are moments
as beautiful as the 'forever' you once said;
they are the 'see you tomorrow'

We believed in yesterday.

It turns out adult goodbyes
do not need words,
and the wish to meet again
is not always answered.

We ran through our youth,
waiting in the same place for too long,

until silence made the decision
we were too afraid to voice.

Perhaps that person, back then,
has already faded into the impossible,
a memory that returns
only to bargain with regret.

The cold of night never truly warmed us;
even dawn could not save our goodnight.

Regret wins quickly—
no wonder even time aches.

Let the past pass gently,
don't let it tangle around what no longer
matters.

If reality still refuses to let us go,
then I will be the one
to loosen my grip.

Fate repeats itself,
still speaking in familiar tones,
still telling the future
to wait—slowly.

Moments remain—
beautiful, fragile, unfinished—
like yesterday's promise
to see you tomorrow.

Adult goodbyes stay silent.

Wishes stay unanswered.

And we, without saying it,
agree to become strangers.

Is love worth it in the end?
Don't ask me. Don't ask him.

Can we begin again?

We can't return to what was.

Accept it.

Release it.

We've arrived at our stop.

Yagnaseni Jenamani
4th Sem, CSE

IN CONVERSATION WITH...

Abhay Kumar Das

From leading India's team to the NASA Human Exploration Rover Challenge (HERC) Finals to contributing to global open-source initiatives through Google Summer of Code, **Abhay Kumar Das, AI Research Intern, Intel** has consistently explored the intersection of engineering, research, and innovation. In this conversation with Sonali Pradhan, 4th Semester CSE, he shares the mindset that has shaped his journey and his advice for aspiring technologists and researchers.

Sonali: Your journey has seamlessly combined engineering, research, and open-source contributions through initiatives like Google Summer of Code. What mindset helped you evolve from a student learning technology to someone actively contributing to it?

Abhay: I could barely manage my CGPA, classes, research, and start-up together. I usually set short-term goals and give my all to achieving them. I wanted to contribute to the research community from my very first year itself. Leading the Indian team to the NASA HERC Finals and presenting my research before senior DRDO scientists gave me a completely different perspective, and encouraged me to keep experimenting - because in research, there are no real failures. So, my mindset has always been: "Keep Moving Forward."

Sonali: What is your definition of success and has been your biggest learning experience till date?

Abhay: I used to think success was all about short-term goals - getting selected somewhere, winning a hackathon, an internship, or a paper. But over the years, I realised life rarely goes according to plan. Sometimes you work hard and nothing happens;



at others, opportunities come from unexpected quarters. I stopped chasing success as a final destination. Success is relative - many tell me I've achieved a lot, but I still feel I have a long way to go. Today, I enjoy the grind much more than the outcome.

Sonali: As technology and research evolve at an incredible pace, what excites you most about the future, and what message would you share with students?

Abhay: What excites me most is that there will always be something new to discover - every theory, every law, someone is trying to challenge or improve it. For juniors, my message is simple: start grinding early. Opportunities won't come knocking on your door - prepare yourself before they arrive. Join startups, contribute to open-source, build things, do hackathons, pursue research. These experiences help your learning grow exponentially.

Sonali Pradhan
4th Sem, CSE

IN CONVERSATION WITH...

Ainesh Patra

Entrepreneurship is about identifying challenges and turning them into opportunities. Ainesh Patra, **CEO of We Innovate India Pvt. Ltd.**, has done just that by building technology-driven solutions that address real business problems. In this conversation with Sonali Pradhan, 4th Semester, CSE, he shares the inspiration behind his entrepreneurial journey, how he balanced engineering with building a start-up, and his advice for aspiring innovators.

Sonali: Many students have ideas, but very few take the leap to build something from them. Looking back, what was the mindset shift that transformed you from someone with an idea into someone who said, "I'm going to build this?"

Ainesh: Watching my father deal with the everyday challenges of running a business made me realise how many companies struggled with operational problems, while the available tech solutions were expensive and impractical - often unsystematic, focused more on selling than solving. That showed me the real gap between technology and what businesses actually needed. Instead of waiting for someone else to fix it, I decided to build practical, affordable, and efficient solutions myself. That mindset turned my idea into a mission to create technology that genuinely helps businesses grow.

Sonali: Building a start-up while pursuing an engineering degree is no easy feat. How did you balance academics with entrepreneurship, and in what ways did your engineering journey shape the way you approached building 'We Innovate India Pvt. Ltd.'?



Ainesh: It wasn't easy, but I was committed to both. I worked day and night, spent most Sundays on research and development, and regularly met business professionals to understand real industry challenges. My engineering education strengthened my problem-solving mindset, while these experiences helped me build practical, scalable solutions - together, they laid the foundation for 'We Innovate India Pvt. Ltd'.

Sonali: Finally, what message would you like to share with students who dream of creating something of their own but are hesitant to put it out into the world?

Ainesh: Don't wait for the perfect time - it never comes. Start with what you have, keep learning, and don't be afraid of failure, because every mistake teaches you something valuable. Listen to real people's problems, build solutions that create value, and stay consistent. Your idea doesn't have to be perfect on day one; it just has to begin. The world rewards those who take action.

Sonali Pradhan
4th Sem, CSE

MY CYBERSPACE

AI-Powered Ransomware: A New Era of Cyber Threats



As Artificial Intelligence (AI) continues to revolutionize industries, cybercriminals are also leveraging its capabilities to launch more sophisticated attacks. One of the most alarming developments is AI-powered ransomware, also known as agentic ransomware. Unlike conventional ransomware, which depends on predefined scripts and constant human control, AI-powered ransomware can independently identify vulnerabilities, steal credentials, spread across networks, and encrypt critical data while adapting its strategy in real time.

These attacks primarily target organizations that rely on cloud computing, AI platforms, databases, and digital services. Businesses, educational institutions, healthcare organizations, and government agencies are particularly vulnerable because they store valuable data and often use interconnected digital infrastructures.

A recent example is the JADEPUFFER attack, one of the first reported autonomous AI-driven ransomware campaigns. It exploited a vulnerability in an AI application framework called Langflow to gain unauthorized access to a

network. The AI agent then collected sensitive credentials, moved across systems, and encrypted database records. What made the attack remarkable was its ability to modify its own code whenever it encountered an obstacle, enabling it to continue the attack without human assistance.

As cyber threats become more intelligent, organizations must strengthen their cyber resilience. Regular software updates, multi-factor authentication, secure management of cloud credentials, continuous network monitoring, and AI-assisted security solutions such as Endpoint Detection and Response (EDR/XDR) can significantly reduce the risk of compromise. Equally important are regular offline backups and cybersecurity awareness among employees.

AI is reshaping the future of cybersecurity—for both defenders and attackers. Staying informed and adopting proactive security practices are essential to safeguarding digital assets in an increasingly AI-driven world.

Dr. Sushree Samita Rout
Associate Professor, CSE Dept.

ALUMNI SPEAK

Hruday Ranjan Mohanty

Students often obsess over coding and technical skills once they step into the IT world, but when asked whether communication matters just as much, alumnus Mr. Hruday Ranjan Mohanty, Service Delivery Manager at Accenture, Silicon graduating batch 2001-2005, IT branch, was clear: while AI can now generate and customize code, it still can't build genuine connection with people.

Communication, he emphasized, is something AI still can't touch. It's what actually "helps you to speak, connect, bring that connection with the audience." He recalled being recognised during an automation-idea drive not for a technical solution, but for the energy and clarity he brought while presenting it — a moment that got him picked for major presentations ever since.

On networking, he described it as a way to borrow perspectives from people who've already walked the path you're dreaming about, whether a senior from college or someone in a completely different field. "I will know the perspective of everyone and I can implement one topic from everyone," he said, adding that in today's job market, a referral often works far better than a cold application.

Asked if AI would make communication and leadership even more critical in the future, he agreed without hesitation. With most institutions racing to adopt the same technologies, what truly sets a person apart is how well they can talk about their work. "Even if you have a multi-skill resource and you are not able to communicate your idea... nobody will know what is behind the screen," he said, crediting his own growth to years of practice with Toastmasters International.

Reflecting on his early career, Mr. Mohanty



admitted he wasn't productive enough as a student — never the "class leader type." A blunt conversation with his manager changed that, pushing him toward more initiative and creativity in everything he did. If he could give one skill to every student, he said, it would be exactly that: productiveness paired with the courage to do things one's own way, instead of simply copying seniors.

Closing with a message for readers, he observed, "No person is boring. No person is great. Everybody has something to share in his or her experience," he said, urging students to read every article, and books of any genre, as a habit — even keeping a notebook of striking words and phrases to use in daily conversation.

Compiled by **Swati Mishra**, 4th Sem, CSE
Satyabrata Routray, 2nd Sem, CSE

TRAVEL DIARY

A letter from Araku Valley



Away from the hustle and bustle of Vizag city, situated in the heart of the Eastern Ghats, lies Araku Valley. Even though, the weather was gray and rainy when I reached there, the chaos of the city had just dissolved and my eyesight was blessed with a burst of immensely raw scenic beauty of nature. In the lap of the valley lies coffee plantations where the aroma of fresh coffee wafts through the air, mingling with the petrichor earthy smell. The tribal farmers selling coffee carried the essence of the valley itself.

In Ananthagiri hills, one of India's largest and deepest natural, million-year-old limestone cave systems, the Borra Caves wrapped me in awe. They are renowned for their spectacular, massive stalactite and stalagmite formations, a subterranean temple, and for being carved by the Gosthani River, Ananthagiri Waterfall's graceful flow adds to the charm of the valley. Padmampuram Garden has toy trains, tree houses and a botanical park whose playful energy

unleashed the kid inside of me to feel open to experiencing life with a little more fun. At night the sound of the rain was echoing against the mountains. Every breath felt therapeutic.

The next morning, while visiting the Coffee Museum, I learnt about the tribal method of cultivating coffee from beans. The Chocolate Factory lay close to it. Seeing the raw cocoa turn to locally crafted rich chocolate was pure joy. The Tribal Museum preserved the traditional history and culture of the valley. Souvenir shops, filter coffee, rustic women carrying woods from the rainforest, South Indian food and people being their honest and authentic self made my day. Every little observation filled a sense of life in me. The meandering hillside roads of Araku Valley gave me a moment worth pausing for at each turn and while returning it was as if the breeze whispered calling me back to the valley once again.

Preetilina Hota
2nd Sem., EIE

BOOK REVIEW

Before The Coffee gets Cold

If you could go back in time, who would you want to meet? Readers are greeted with this question on the very first page of this book. Having come across several time travel stories, I wondered if this was another one where the protagonist would go back in time to mend their future by preventing their mistakes. What I discovered later was that it is not a regular time-travel tale.

The writer, Toshikazu Kawaguchi introduces a Tokyo café famous for an urban legend surrounding it. The legend claims that visitors of the café might get a chance to travel through time. As the story progresses, it becomes clear that this opportunity comes with its fair share of rules. The traveler would have to sit on a particular chair at the cafe to be able to travel through time. They cannot get up from the chair and can only meet people who have visited the café at least once. The most discouraging rule was that the present cannot be changed no matter what one does with their time back in the past. For those who still went ahead, there was one final rule. They have to drink a cup of coffee served to them before it goes cold. Otherwise, they would stay stuck between the past and present in the form of a ghost.

The book follows several characters who revisit their past. A woman goes back in time to meet her fiancé who has broken up with her, a wife taking care of her husband struggling with Alzheimer's and others. Through all these stories, I learned that the questions of 'why' and 'what if' plague people more than the difficulties and heartbreaks they



face. What matters is whether they have the courage to go through it all, even without the answers to all their questions.

So, if you answered the question that the book begins with, what would you tell them before the coffee gets cold?

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EARTH MATTERS

Cloud Seeding: Revisiting a Decade-Old Innovation



Cloud seeding, or artificial cloud technology, is a weather modification method that enhances precipitation by introducing substances such as silver iodide, salt, or dry ice into the existing clouds. It cannot create clouds from clear skies, but it can help droplets or ice crystals to form and grow under favorable atmospheric conditions. Dr. Sudhansu Kumar Banerjee, former Director General of India Meteorological Department, began exploring this idea as early as 1940, and in Kolkata he carried out laboratory experiments in a cloud chamber, refining seeding agents to make artificial rain more practical for India.

By the early 1950s, Banerjee had developed a cost-effective approach suited to Indian conditions, using silver iodide, dry ice, and salt in controlled trials. In 1952, his team conducted balloon-based experiments over Kolkata, releasing seeding material into monsoon clouds and successfully triggering rainfall on several occasions, establishing him as one of India's earliest pioneers of artificial rainmaking.

Today, cloud seeding is used in countries such as the United States, China, the UAE, and India to improve water resources, reduce drought, and sometimes address air pollution, but its results remain inconsistent because cloud type, moisture levels, and atmospheric stability strongly affect outcomes. Delhi's recent artificial rain proposal failed due to inadequate cloud cover and low humidity, while Dubai and the UAE have seen mixed results despite extensive programs; scientists have also not directly linked extreme rainfall events in these places to cloud seeding. Researchers therefore recommend better forecasting, real-time atmospheric monitoring, advanced radar, AI-based prediction models, and environmentally sustainable seeding materials, while treating cloud seeding as a supplementary tool rather than a complete solution to environmental challenges.

Excerpted from DRI website and The Better India magazines (2026); Image: AI generated

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LEADING THE NEXT WAVE OF HEALTHCARE TRANSFORMATION

"While India is already recognized as the pharmacy of the world, I look forward to the day when we can proudly say that India is exporting Digital Health solutions globally."

Dr. Rajeev Singh Raghuwanshi, DGCI
(At the Global Digital Health Summit, 2024)

To begin with, let us understand what differentiates digital healthcare from mainstream healthcare. Traditional healthcare is largely reactive, relying on hospital visits, diagnostic tests, and paper-based medical records after symptoms appear. Digital healthcare, on the other hand, is proactive and technology-driven, using electronic health records (EHR), wearable devices, teleconsultations, and data analytics to enable continuous monitoring, early intervention, and more personalized, accessible patient care.

India's growing leadership in digital healthcare has been recognized by the World Economic Forum in its article, India Can Be a Global Pathfinder in Digital Health, which highlights the country's potential to build scalable, affordable, and interoperable health systems. Supporting this vision are initiatives such as Ayushman Bharat Digital Mission, eSanjeevani, U-WIN, e-Hospital, and Aarogya Setu. India also launched the world's first Patient Centricity Index at the Global Digital Health Summit 2024. Despite this progress, the shortage of professionals skilled in digital health remains a major challenge. As the World Health Organization highlights, without a trained workforce, digital health initiatives risk remaining fragmented and inaccessible.



Keeping this vision in focus, SiliconTech launched the M.Sc. in Digital Healthcare Systems and Management (DHSM) on 1 May 2026. The program prepares graduates to lead digital healthcare transformation through expertise in healthcare informatics, analytics, EHR, telemedicine, interoperability, and smart hospital technologies. An industry-aligned curriculum, hands-on labs, simulation-based learning, and internships ensure graduates are ready to design and manage technology-enabled healthcare systems.

In the not-too-distant future, a patient in a remote village may receive timely treatment because a digital health system detected an illness before it became critical. Behind that seamless care will be professionals who understand both healthcare and technology. As India moves towards becoming a global digital health leader, its greatest strength will not be technology alone, but the skilled minds ensuring its benefits reach every patient and every community.

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