CSI
COMPUTER SOCIETY OF INDIA
SFIT

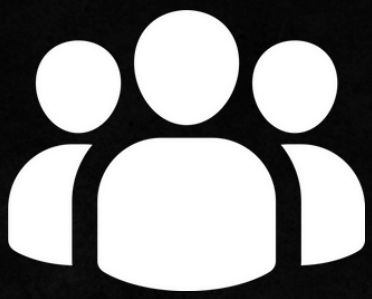
# PARADIGM

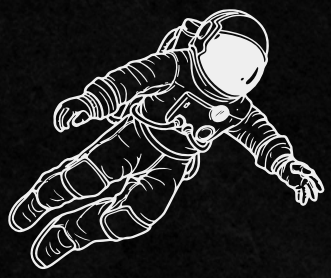
## #08

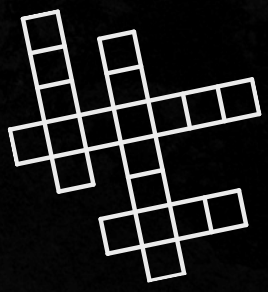
ANNUAL TECH MAGAZINE

# 2025

## QUANTUM REALM: COMPUTING THE IMPOSSIBLE





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# ABOUT Us

CSI SFIT since its inception in 2002, has proven to be a great source of knowledge by providing hands-on technical training and transforming students into competent professionals. In each academic, CSI SFIT conducts numerous workshops, seminars, conferences, industry-academia interactions, competitions, student initiative programs, and industrial visits which prove to be a gateway to technical expertise.

# OUR MISSION

CSI SFIT aims to lay a foundation for the refinement of technical inventiveness among young technocratic skills that will promote originality among budding engineers down the path for professional development.

# FACULTY COORDINATOR

Amrita Mathur

CSI-SFIT, founded in 2002, aims to impart practical knowledge in Computer Science and Technology. We take pride in our 34 active committee members who organize various technical events and workshops, such as the Design Decode workshop and the Figma and Flask workshop. Our event, Shattered Dimensions, during the Technical Fest MOSAIC, was a significant success, attracting many visitors.

Expressions of inherent and nurtured qualities are vital through oral and written means. The CSI-SFIT committee's launch of the Annual Technical Magazine provides a platform for these expressions. It is with immense pleasure that we present the seventh edition of our magazine, PARADIGM. In science and philosophy, a "PARADIGM" represents a distinct set of concepts and standards. Similarly, our magazine includes reports of activities, technical articles, and project reports from students.

I extend my gratitude to our Director Rev. Bro. Shanti Lal Kujur, Principal Dr. Sincy George, Vice-Principal Dr. Gautam Shah, Dean Academics Dr. Deepak Jayaswal, and my co-coordinator Mr. RK Shinde for their unwavering support. Lastly, a heartfelt gratitude to all participants, authors, report writers, and students involved in this endeavor.

Best wishes and God's blessings!

Ms. Amrita Mathur

(CSI-SFIT Coordinator)

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#WeMakeItHappen

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# FIGMA 101

## UNLOCKING THE BASICS


On September 21, 2024, the Computer Society of India student chapter at St. Francis Institute of Technology hosted an insightful and interactive workshop for over 50 attendees, led by talented alumnus **UJWAL KATARIYA.** The session provided a deep dive into the world of User Interface and User Experience design, beginning with the core principles of how thoughtful design improves user satisfaction and interaction with digital products. The workshop delivered a packed agenda covering the core principles and practical applications of modern design.

A major highlight of the session was the in-depth coverage of grid systems, which are essential for maintaining layout consistency and achieving balanced, visually appealing designs. Students were taught how to structure their designs using grids, an industry-standard approach that ensures coherence across different sections of a project. The session also demystified Auto Layout, a powerful feature in Figma that allows for the creation of responsive and flexible design components. Attendees learned how Auto Layout streamlines the process of aligning, spacing, and resizing elements dynamically—a crucial skill when designing for multiple screen sizes and devices. In addition, the session introduced participants to the use of reusable components and constraints, both of which significantly enhance design efficiency and scalability.

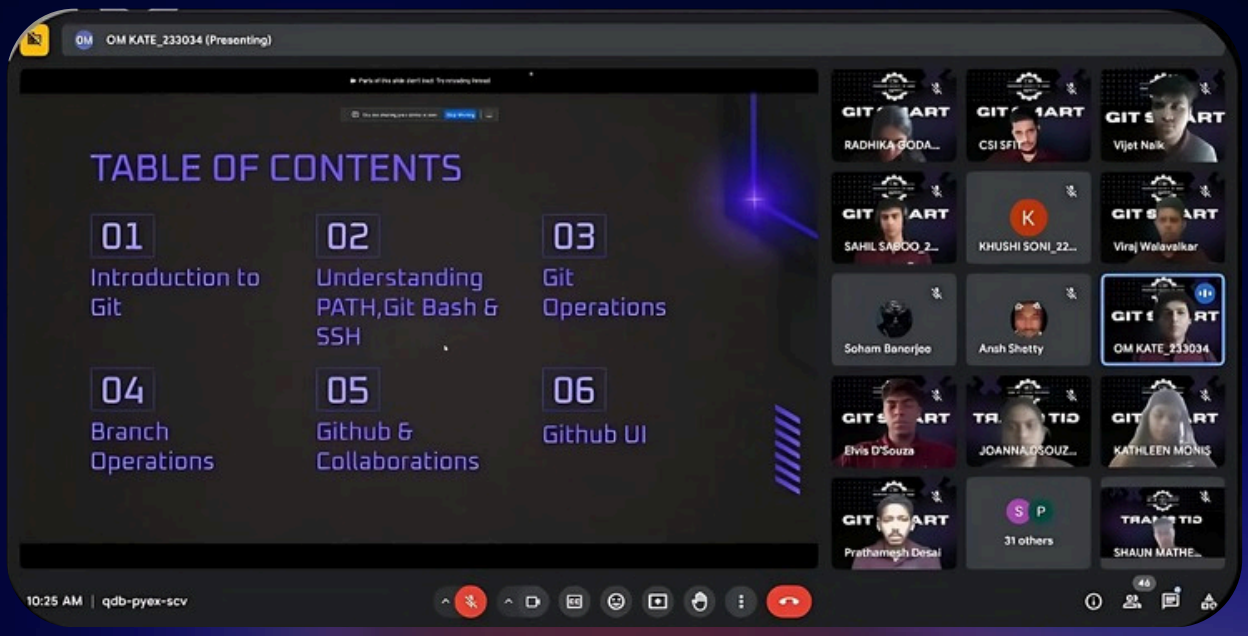
Right from the start, the session emphasized practical learning, allowing participants to directly engage with the Figma interface and gradually become comfortable with its wide range of tools and functionalities. Rather than focusing solely on theory, Ujwal guided students through interactive exercises that highlighted real-world applications of design principles within Figma.

The event stood out for its hands-on approach, as participants engaged in practical exercises that bridged theory with real-world application. Ujwal Katariya shared valuable industry insights, guidin through design workflows, usability considerations & the importance of user-centric thinking. By the end of the session, students not only gained a grasp of UI/UX fundamentals but also walked away with techniques to enhance the visual appeal their own projects.

These features empower designers to maintain uniformity across large projects, reduce repetitive work, and ensure that designs adapt gracefully to various resolutions and screen orientations. Beyond the technical aspects, the session expanded into valuable workflow enhancements by exploring a range of Figma plugins. These tools were curated and recommended by the instructor to help streamline tasks such as icon management, asset organization, prototyping, and even accessibility checks—making the design process more productive and enjoyable.

IGMA

# GIT SMART WORKSHOP




'Git Smart', an interactive online workshop on Git and Version Control Systems, was successfully conducted by the Computer Society of India SFIT, under the guidance of **Om Kate, Joint Head of the CSI Technical Team.** The event saw active participation from over 80 students, reflecting a strong interest in foundational development tools and collaborative workflows The session began with an explanation of the significance of version control in software development, followed by live demonstrations

Participants learned how to install and configure Git, work with commands like init, commit, and status, and navigate the structure of a repository .The workshop also provided real-time examples of branching, merging, and using GitHub to collaborate on codebases

Overall, the participants were encouraged to contribute to a dedicated GitHub repository set up for the event. They cloned the repository, created feature branches, made changes, and submitted well-documented Pull Requests. This simulated a real-world workflow and gave them practical experience in code collaboration. 'Git Smart' was more than a tutorial—it was a step toward building collaborative development habits among students.


The team's efforts showcased their commitment to bridging classroom learning with industry practices. By blending theory with real-world practice, 'Git Smart' laid the groundwork for a culture of collaboration and innovation that will continue to thrive in future CSI initiatives

## GIT SMART

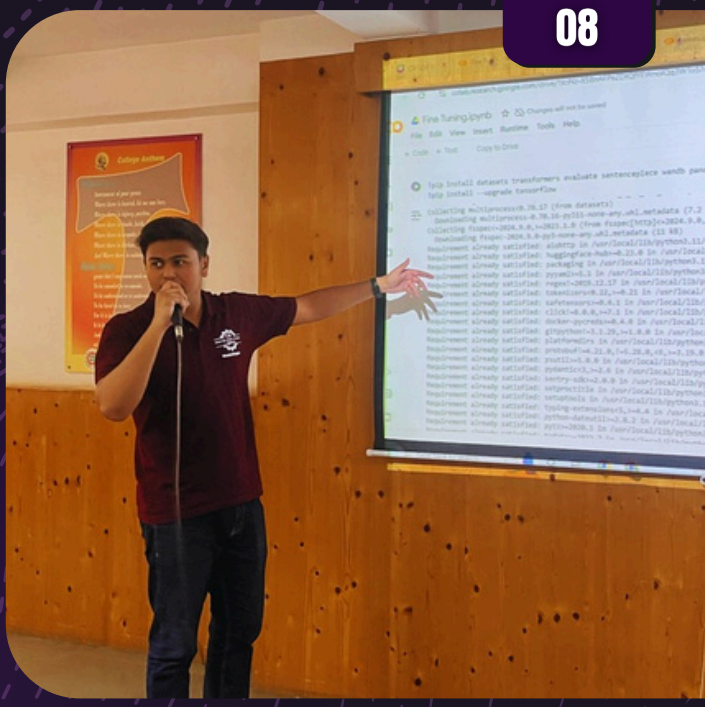
A key feature of the workshop was its emphasis on collaboration. Attendees were shown how to fork repositories, create branches, and submit Pull Requests. Merge conflicts, commit histories, and effective documentation practices were all covered in-depth. Each concept was supported with hands-on practice, ensuring attendees didn't just understand theory but also implementation.

# LLM WORKSHOP

On February 6, 2025, CSI-SFIT hosted an enlightening and hands-on workshop on Large Language Models (LLMs), led by distinguished AI practitioners **Craig Michael Dsouza and Elvis D'Souza**. The session drew in a vibrant group of tech-savvy students and budding AI enthusiasts, all eager to explore the inner workings of cutting-edge language models and their vast potential. The core focus of the workshop revolved around fine-tuning LLMs, exploring prompt engineering, and understanding how these models can be adapted for a wide variety of real-world applications.

Through hands-on demonstrations, attendees were introduced to critical AI concepts such as transformer architecture, attention mechanisms, and the training pipelines behind large-scale models like GPT. These sessions helped demystify complex topics and made advanced AI more accessible to learners at different levels. One of the standout elements of the event was its emphasis on interactive learning. Participants worked on customizing models, explored the challenges of deploying LLMs in production environments, and analyzed the efficiency of various AI platforms. They also gained exposure to essential AI tools like Natural Language Processing (NLP), machine learning algorithms, and model evaluation techniques, helping them bridge the gap between academic knowledge and industry expectations.

Beyond technical knowledge, the workshop also encouraged collaborative problem-solving and innovative thinking. Small group activities and open Q&A sessions fostered a sense of community and provided attendees with the opportunity to discuss real-world case studies, industry trends, and ethical considerations in AI development. Such discussions added depth to the learning experience and encouraged students to think critically about the societal impact of AI.



The success of this workshop underscores CSI-SFIT's ongoing commitment to nurturing technological excellence and hands-on education. It offered participants not just knowledge, but practical experience, helping them build a strong foundation in AI that will benefit them in their academic and professional journeys. This session marked yet another significant step in CSI-SFIT's mission to promote advanced, future-ready learning environments that prepare students for the dynamic tech landscape ahead.

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# COSMIC SHOWDOWN

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# SPACE DAY

St. Francis Institute of Technology (SFIT) proudly celebrated Space Day 2024 in honour of India's landmark achievement — the successful Chandrayaan-3 mission. The event aimed not only to commemorate this historic lunar landing but also to ignite curiosity and enthusiasm among students about the vast and fascinating world of space science.

One of the highlights of the celebration was the initiative by CSI-SFIT, which showcased innovation and creativity through their featured project 'Cosmic Showdown'. This interactive game, developed using the Godot Engine, brought the excitement of space to life in a playful and engaging way.

In Cosmic Showdown, players dive into an intergalactic face-off between astronauts and aliens, navigating fast-paced, strategic gameplay that blends science fiction with a dash of humour. The game featured quick rounds, vibrant visuals, and intuitive controls, making it a hit among attendees of all age groups. It served as a perfect example of how technology and creativity can come together to make learning fun and immersive.

Cosmic Showdown is a fast-paced, sci-fi battle between astronauts and aliens, combining strategy, vibrant visuals, and humour. With quick rounds and intuitive controls, it captivated players of all ages, showcasing how technology and creativity can make learning both fun and immersive

EDITION
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# MOSAIC

A BATTLE BETWEEN CODE AND CONSCIOUSNESS

# Ghost Protocol

Blending creativity, logic, and a touch of chaos, **Ghost Protocol** was one of the most unique and high-energy technical event conducted by the CSI Committee. Set in a haunted digital realm. The task? Build and deploy a fully functional website using limited tools and time—all while being relentlessly disrupted by a mischievous ghost. Designed for a team of four, Each member had a specific role to play, demanding coordination, focus, and sharp thinking. What made Ghost Protocol truly stand out was the way it turned coding into an immersive adventure, where the tension wasn't just about writing clean code With its gripping narrative and engaging format, the game delivered a one-of a kind experience that combined technical learning with thrilling gameplay, which left participants challenged and entertained.

Phase 1: The Treasure Hunt Challenge
The first phase of Ghost Protocol was a non-technical, high-energy activity designed to test participants' agility, observation, and teamwork

Teams were tasked with locating four colour-coded card sets strategically hidden across different zones within the venue

Once all sets were collected, teams arranged the correct sequence on a laptop to unlock the password for the next phase

To intensify the challenge, a buzzer sounded at scheduled intervals, requiring all players to rush to the nearest designated safe zone

Any participant who failed to reach a safe zone in time was considered "caught" by the ghost and was temporarily frozen for 10 seconds

This rule added time pressure and made it harder for teams to work together, forcing players to think fast and make quick decisions

Phase 2 was the Technical Round, each team member was individually assigned one domain: front-end, back-end, database, or deployment—and faced a timed challenge.

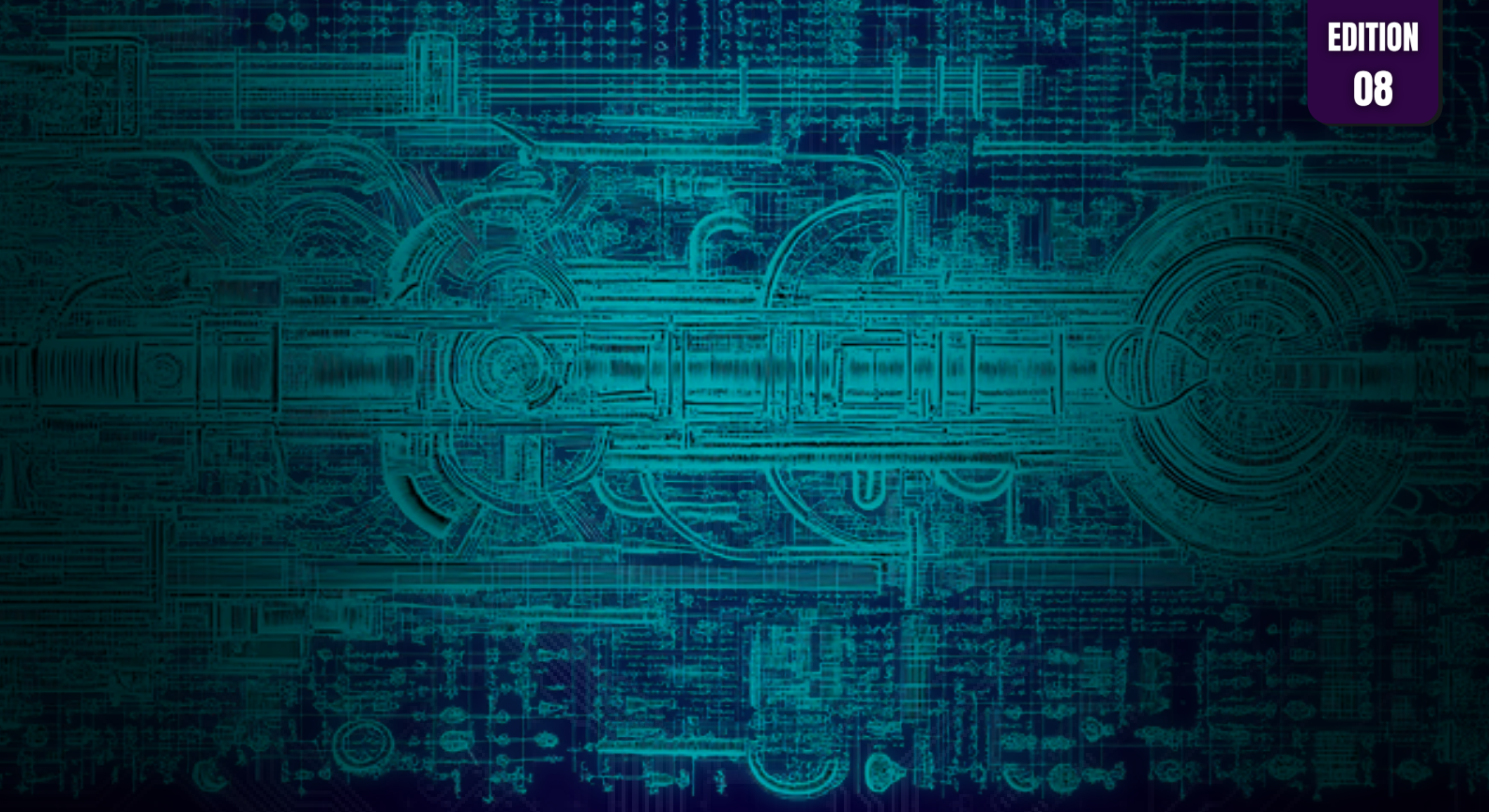
Periodically, a buzzer would blare, triggering a sprint as each player raced toward the nearest safe zone.

Anyone who missed the sound was ‘caught’ and had to stay frozen for 10 seconds.

This timed format, combined with physical exertion and technical demands, made Ghost Protocol a fast-paced, adrenaline Charged, high-stakes experience that tested both brain and reflexes.

Ultimately, Ghost Protocol emerged as a standout event at MOSAIC 2025, seamlessly blending narrative storytelling with technical challenge.

The event firmly established CSI-SFIT as a trailblazer in innovative, experiential student learning.



# WELCOME TO THE QUANTUM REALM: A NEW ERA OF COMPUTATION

Imagine you are faced with an impossibly complex maze. A conventional computer, even a supercomputer, would tackle this maze by trying every available path one by one until it found the exit.1 It might do this incredibly fast, but it is still a sequential process. Now, picture a different kind of machine. Instead of trying each path individually, this machine could explore every single path simultaneously, finding the solution in a tiny fraction of the time.1 This is the revolutionary promise of quantum computing.

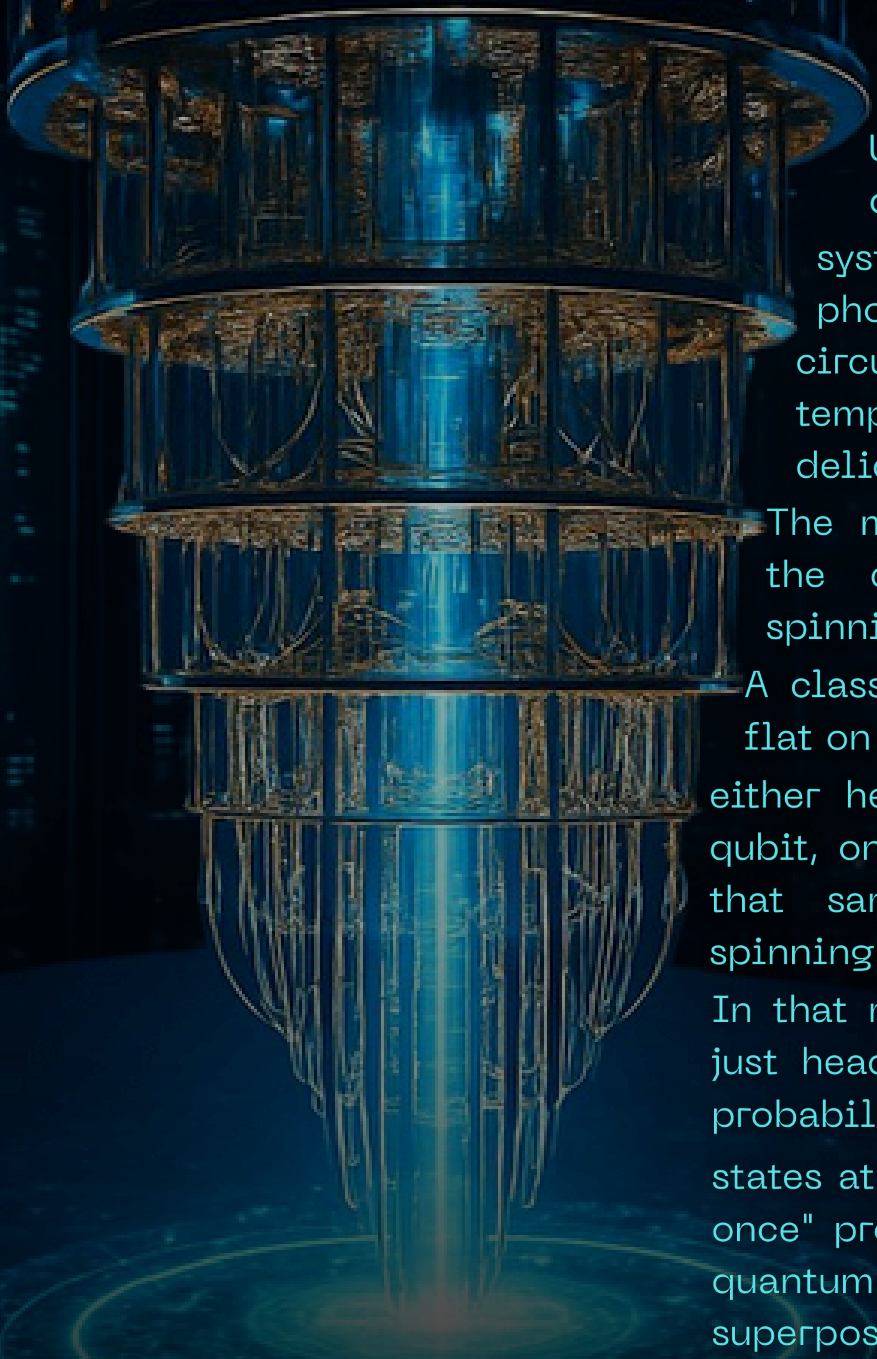
This extraordinary power does not come from simply making our current computers faster; it comes from building them based on a completely different set of rules. Quantum computing is a field that combines computer science, physics, and mathematics to harness the strange and counterintuitive principles of quantum mechanics—the laws that govern nature at the very smallest scales of atoms and subatomic particles.3 As the renowned physicist Richard Feynman observed in 1981, the world around us is fundamentally quantum.

It is crucial to understand that quantum computers are not destined to replace the laptops, smartphones, or servers we use for everyday tasks like sending emails, browsing social media, or playing video games. Instead, they are highly specialized tools designed to solve a particular class of problems that are currently "intractable" for even the most powerful classical supercomputers on Earth.5 The complexity of these problems grows exponentially, meaning that even a small increase in the problem's size can lead to a calculation that would take a classical computer thousands, or even millions, of years to complete. A quantum computer, however, could potentially solve these same problems in a matter of minutes or hours. This represents not just an incremental improvement but a fundamental paradigm shift in what it means to compute.

The reason for this incredible potential lies in how these machines are built to match the very nature of the problems they solve. While classical computers must check each potential solution one after the other, a quantum computer's power also grows exponentially, mirroring the explosive growth in complexity of the problem itself.9 It is not just a faster processor; it is an entirely new computational model that aligns with the structure of the universe's most challenging puzzles.

# THE QUANTUM LEAP: FROM CLASSICAL BITS TO QUANTUM QUBITS

Classical computing relies on bits that exist as either 0 or 1, like simple on/off switches, and these form the foundation of all digital data. Quantum computing, however, uses qubits, which are more advanced and exists in multiple states at once, enabling a significant leap in how information is stored and processed.



Unlike classical bits, a qubit is a physical quantum system like a trapped ion, a photon, or a superconducting circuit kept at extremely cold temperatures to preserve its delicate quantum state.

The most effective way to grasp the difference is through the spinning coin analogy.

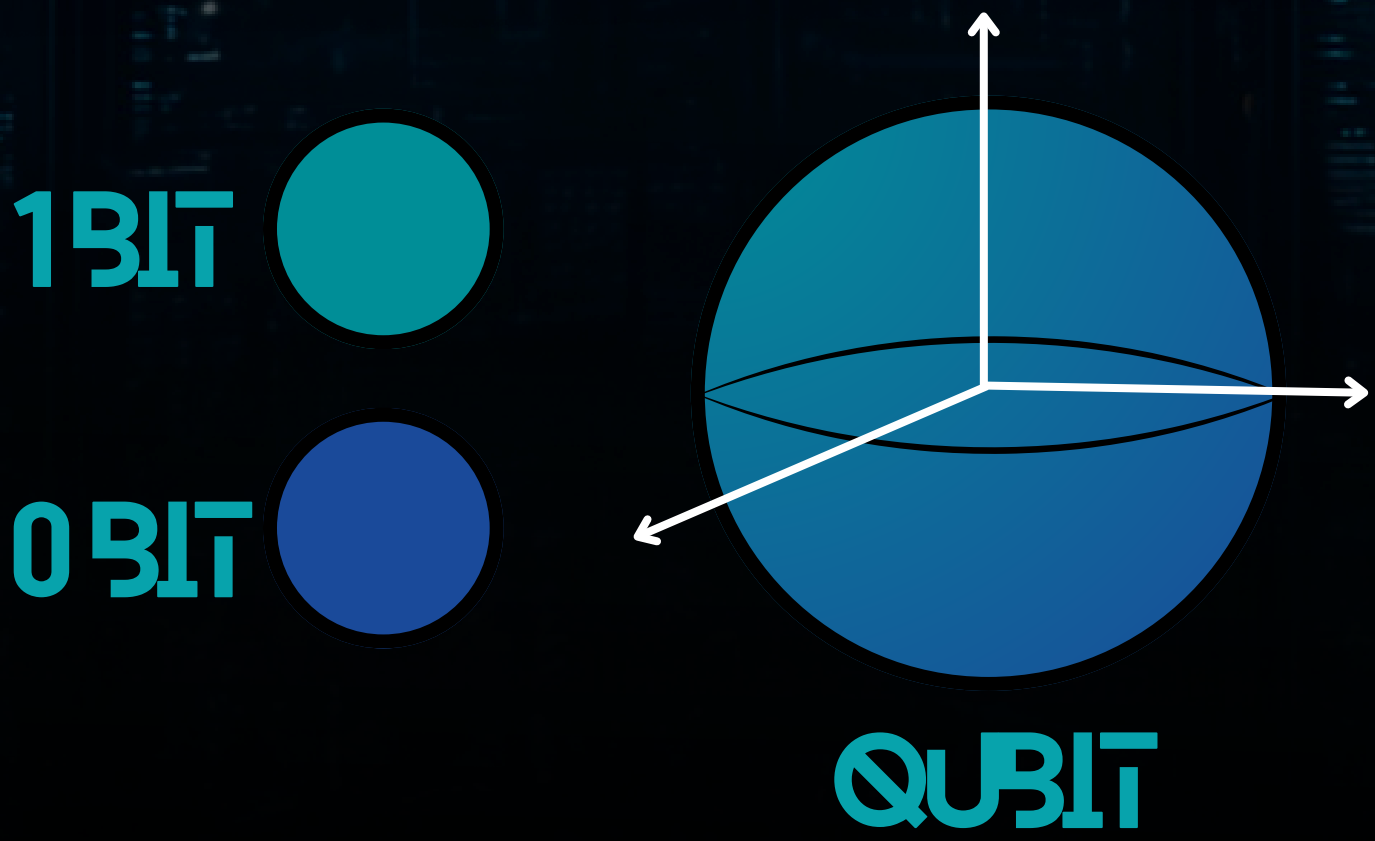
A classical bit is like a coin lying flat on a table it is definitively either heads (1) or tails (0). A qubit, on the other hand, is like that same coin while it is spinning in the air.

In that moment of spinning, it is not just heads or tails; it is in a blurry, probabilistic combination of both states at the same time. This "both at once" property is a core principle of quantum mechanics called superposition.

It is spinning coin lands or, in quantum terms, when the qubit is measured that its state "collapses" into a definite outcome of either 0 or 1.3

# TABLE 1: BIT VS. QUBIT AT A GLANCE

| Feature | Classical Bit | Quantum Bit (Qubit) |
|---|---|---|
| **State** | Can be only a 0 OR a 1. | Can be a 0, a 1, OR a superposition of both simultaneously |
| **Analogy** | A light switch: either ON or OFF. | A spinning coin: a mix of heads and tails until measured. |
| **Information Capacity** | Adding more bits increases power linearly (N bits = N values). | Adding more qubits increases power exponentially (N qubits = 2^N values) |
| **Underlying Physics** | Based on classical physics and electrical circuits. | Based on the counterintuitive laws of quantum mechanics. |



# COMPUTING THE IMPOSSIBLE: WHY THE WORLD NEEDS QUANTUM

Quantum computing is not a solution in search of a problem. It is a necessary tool for tackling some of the most profound and complex challenges facing humanity challenges that are fundamentally rooted in the complexities of the quantum world itself. From designing life-saving drugs to creating a more secure digital world, the applications are poised to be revolutionary.

## REVOLUTIONIZING MEDICINE AND MATERIALS SCIENCE

Quantum computers, operating on the same principles as molecules, can simulate them with perfect accuracy. This opens the door to major breakthroughs:

- **Personalized Medicine:** Tailoring therapies to an individual's genetics for more effective treatment.
- **Faster Drug Discovery:** Precise modeling of drug–protein interactions accelerates treatments for diseases like cancer and Alzheimer's. Pharma leaders like Biogen, Merck, and Moderna are exploring this.
- **Advanced Materials:** Designing better catalysts, solar cells, and eco-friendly batteries Google and BASF have already simulated Lithium Nickel Oxide.

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# THE QUANTUM LEAP

## HARDWARE DISCOVERIES & ADVANCES 2024-2025

# THE QUANTUM FRONTIER: A 2024-2025 PROGRESS REPORT

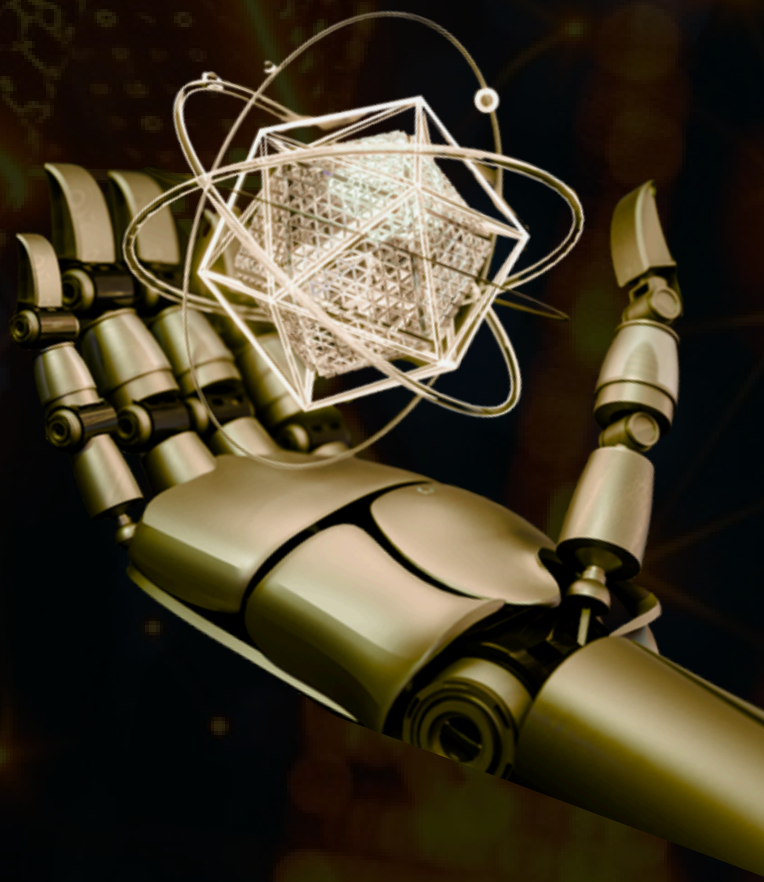
The world of quantum computing is no longer a distant, theoretical dream. It is a dynamic and rapidly advancing industry, and the period of 2024–2025 has been marked by tangible breakthroughs that are pushing the technology from concept to reality. The United Nations has even designated 2025 as the International Year of Quantum Science and Technology, reflecting the field's growing global importance.

The biggest story of this period has been a crucial shift in focus across the industry: a pivot from a race for quantity to a quest for quality.41 For years, the headline metric was the number of qubits a processor had. Now, the primary goal is to build better, more stable qubits.

The greatest engineering challenge in the field is decoherence, the tendency of a qubit's fragile quantum state to be destroyed by the slightest interaction with its environment, such as tiny fluctuations in temperature or radiation.3 This environmental "noise" introduces errors into calculations, limiting what current machines can do.

The solution to this problem is Quantum Error Correction (QEC), and experts are heralding the start of the "QEC Era".42 The core idea is to use multiple, error-prone physical qubits to encode the information of a single, highly robust " logical qubit

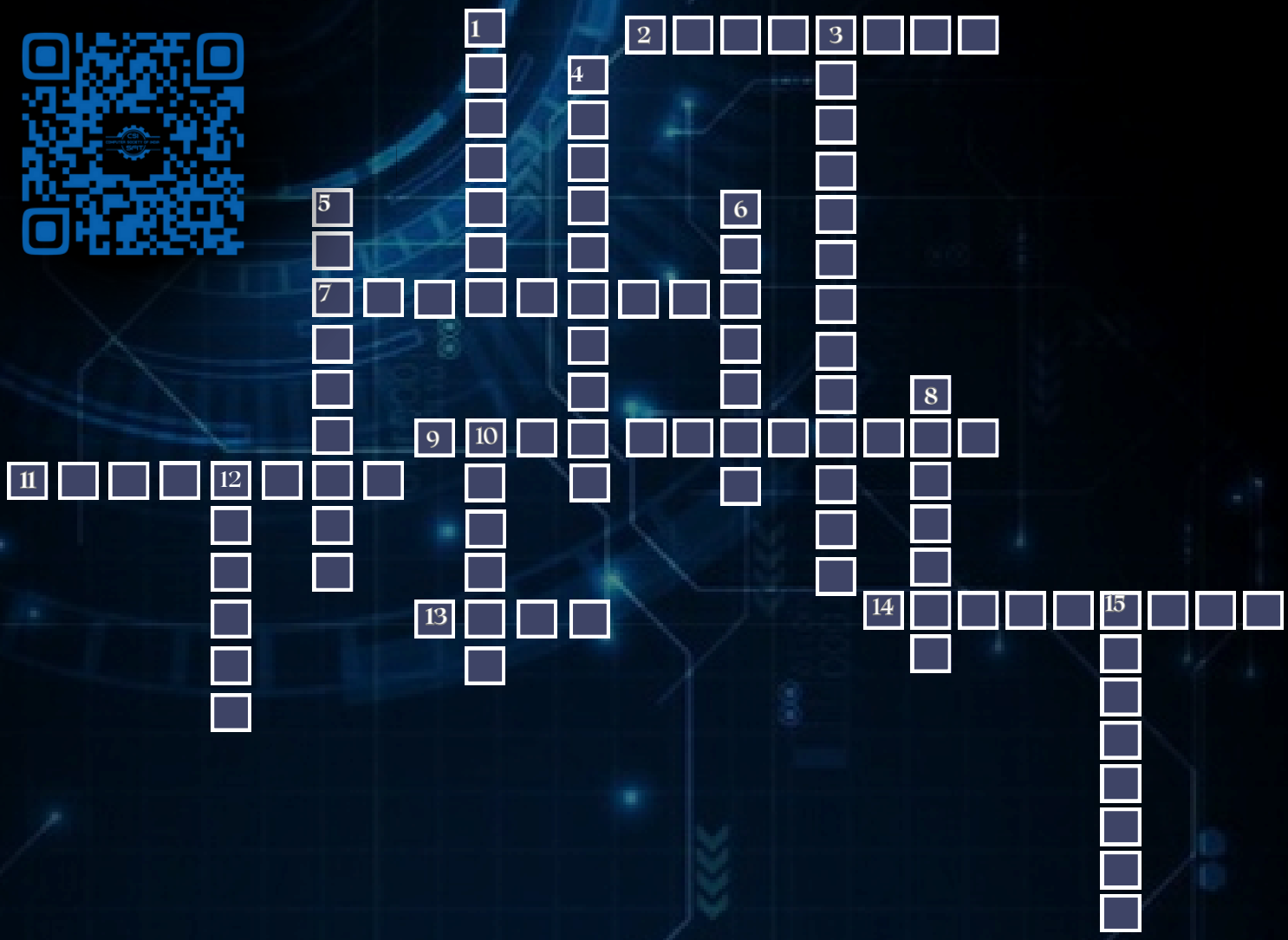
By constantly checking for and correcting errors across the physical qubits, a logical qubit can maintain its quantum information for much longer, enabling more complex and reliable computations. Achieving fault-tolerant quantum computing through QEC is the most critical milestone on the path to building truly useful machines.



# TABLE 2: 2024-2025 HARDWARE QUANTUM BREAKTHROUGHS

| Company | Key 2024-2025 Achievement / Processor | Qubit Technology | Significance |
|---|---|---|---|
| **Google Quantum AI** | Willow Processor | Superconducting | Major breakthrough in Quantum Error Correction; reduces errors exponentially as it scales. |
| **IBM Quantum** | Heron Processor & >1,000-qubit Condor | Superconducting | Focus on high-quality, low-noise processors (Heron) and scaling up cloud-accessible systems. |
| **Microsoft Azure Quantum Majorana** | 8-qubit Topological Processor | Topological | A major step in a novel approach to build inherently stable qubits that are naturally protected from errors. |
| **IonQ** | High-Fidelity Systems | Trapped Ion | Achieved world-record gate fidelities (>99.9%) |
| **PsiQuantum** | Ultra-low-loss Photonic Chips | Photonic (Light-based) | Solved key scaling challenges for building quantum computers that can operate at room temperature. |
| **Industry – WidTrend** | Focus on Logical Qubits | All | The entire field is shifting from a race for more physical qubits to creating stable, error-corrected logical qubits. |

# CROSSWORD



## ACROSS

1. This principle allows quantum computers to explore multiple computational paths simultaneously, unlike classical sequential processing
2. Einstein's term for quantum entanglement, now experimentally validated and central to quantum computing theory
3. Phenomenon where quantum algorithms amplify right answers and cancel wrong ones.
4. Threat posed by eavesdropping on encrypted data today to be broken later using quantum methods.
5. This quantum rule stops hackers from copying photon-encoded keys in QKD.
6. The physical particle that carries keys in quantum key distribution.
7. A superconducting element that forms physical qubits when frozen near absolute zero
8. This well-known quantum algorithm breaks RSA encryption by factoring large numbers.

## DOWN

1. A concept that keeps two qubits' states correlated no matter the distance.
2. Visionary who said: "To simulate nature, we need quantum computers" (1981).
3. Simple metaphor comparing classical bits with qubits using a tossed object.
4. Field that models molecules and reactions—benefits from quantum simulation
5. Problem class involving optimization of delivery routes, investment portfolios, etc
6. Quantum computers offer this over classical models in simulating realistic bonding
7. The approximate number of qubits needed to encode more states than all particles in the universe.

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# MULTIPLE CHOICE Quiz

**1. WHAT CAUSES A QUANTUM COMPUTER'S PERFORMANCE TO INCREASE EXPONENTIALLY?**

A. MORE RAM
B. FASTER PROCESSORS
C. ADDING MORE QBITS IN SUPERPOSITION
D. QUANTUM COMPUTERS DON'T NEED ELECTRICITY

**2. A CLASSICAL BIT CAN BE IN WHAT STATE(S)?**

A. BOTH 0 AND 1 SIMULTANEOUSLY
B. ONLY 1
C. EITHER 0 OR 1
D. NEITHER 0 NOR 1

**3. WHICH ANALOGY BEST DESCRIBES A QUBIT?**

A. A SPINNING COIN SHOWING BOTH HEADS AND TAILS
B. A BROKEN SWITCH
C. A GLOWING LIGHTBULB
D. A FALLING DOMINO

**4. HOW MANY POSSIBLE STATES CAN A 20-QUBIT QUANTUM SYSTEM REPRESENT SIMULTANEOUSLY?**

A. 2 X 20
B. 20
C. 20^2
D. 2^20

**5. HOW CAN QUANTUM COMPUTING HELP IN OPTIMIZATION PROBLEMS?**

A. IT INCREASES DATA STORAGE
B. IT SOLVES MULTIPLE SOLUTIONS SEQUENTIALLY
C. IT EXPLORES VAST SOLUTION SPACES SIMULTANEOUSLY
D. IT USES BRUTE FORCE TO FIND ANSWERS

**6. WHICH OF THE FOLLOWING COMPANIES IS FOCUSED ON BUILDING SUPERCONDUCTING QUANTUM PROCESSORS?**

A. PSIQUANTUM AND PASQAL
B. GOOGLE AND IBM
C. MICROSOFT AND NASA
D. BIOGEN AND MODERNA

**7.WHAT IS A KEY GOAL OF MICROSOFT'S TOPOLOGICAL QUANTUM COMPUTING APPROACH?**

A. TO BUILD UNSTABLE QUBITS
B. TO RELY ON CLOUD-ONLY MODELS
C. TO DEVELOP INHERENTLY ERROR-RESISTANT QUBITS
D. TO SIMULATE CLASSICAL COMPUTERS USING PHOTONS

# CHAIRPERSON

Vijet Naik

On behalf of the CSI committee, I extend my deepest gratitude to Director Bro. Shantilal Kujur, Principal Dr. Sincy George, Training and Placement Officer Mr. Wilson Pinto, and Dean of Academics Dr. Bidisha Roy, for their unwavering support and belief in the capabilities of student-led initiatives. Their encouragement and trust provided us with the freedom and confidence to plan and execute a variety of technical and creative events throughout the academic year. The opportunity to present this magazine is a testament to their continued dedication to fostering holistic student growth

And we are truly honored to have received such a platform to showcase the talent and teamwork that exists within our committee and the wider student community. Sincere appreciation also goes out to the heads of departments—Dr. Kavita Sonawane, Dr. Prachi Raut, Dr. Kevin Norohna, Dr. Sunil Pansare, and Dr. Hariprasad Chelamallu—whose cooperation and support across departments made cross-functional collaboration seamless..

Special thanks to Sahil Saboo, Prathamesh Desai, and Soham Patil for their key contributions in decision-making and maintaining team spirit. This magazine is the result of months of dedication from the CSI team, editorial and design members, and all student contributors. Heartfelt gratitude goes to our committee, audience, and the entire SFIT family for their constant support throughout this meaningful journey.
#WeMakeItHappen

# VICE CHAIRPERSON

Sahil Sahoo

Being part of the Computer Society of India (CSI) for the past two years has been nothing short of transformative. Starting as a Creative Executive and eventually stepping into the role of Vice Chairperson , I had the privilege of working with an incredible team that strived to innovate, inspire, and impact. We didn't just plan events—we built experiences that sparked curiosity and encouraged growth in ways textbooks never could. From cracking Vedic ciphers in Ghost Protocol to developing our own 3D space-themed game Cosmic Showdown,each initiative blended creativity with tech in exciting ways. Events like "Let's Talk Code – LLMs" helped demystify AI tools and large language models, while "Git Smart" made version control finally click for many. We even launched a Medium blog to keep the learning going beyond events. Every session was crafted with care and seeing participants walk away with something new made it all worthwhile. But beyond tech, this journey was about people and purpose. CSI taught me how to lead with clarity, communicate ideas, and work through challenges with a team that truly had each other's backs. I'm deeply thankful to my fellow members, our coordinators, and CSI-SFIT for trusting me with this responsibility. From sleepless planning nights to cheering from backstage, it's been an unforgettable ride. Here's to the team that made magic happen #WeMakeIThappen

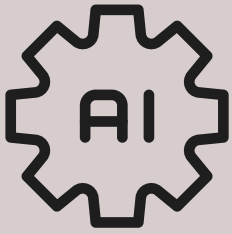
# CODE with CSI

In today's fast-paced digital era, staying updated with the latest technologies, resources, and career opportunities is the key to staying ahead. Code with CSI, an exclusive WhatsApp broadcast group by the Computer Society of India – SFIT Student Chapter, is designed to do just that – and more!

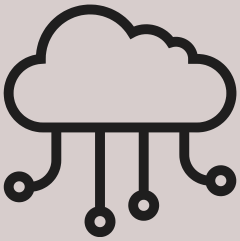
Simplify your learning with concise, well-structured cheat sheets across multiple technical domains:

Cyber Security & Ethical Hacking

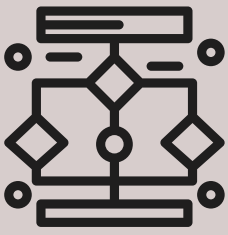
Mobile App Dev



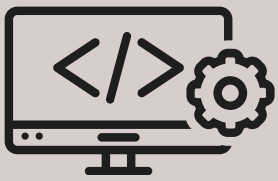

AI & Machine Learning



Cloud Computing



Data Structure & Algorithms




Web Dev

## Internship Alerts

Be the first to know about internship openings across the tech industry. Each alert includes the application link, requirements, and eligibility so you can apply without the hassle of searching multiple platforms.

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