

VOLUME 3 ● ISSUE 3 ● JULY - SEP 2025

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



QUARTERLY NEWSLETTER

VOLUME 3 ● ISSUE 3 ● JULY-SEP 2025

**Faculty of Engineering and Technology (FET)
Gurukula Kangri (Deemed to be) University, Haridwar**

A Newsletter from
Department of Computer Science & Engineering
Faculty of Engineering and Technology
Gurukula Kangri (Deemed to be) University, Haridwar

»»» **EDITOR'S NOTE**

Dear Readers,

It gives me immense pleasure to present the July–Sep 2025 edition of the Quarterly Magazine of the Department of Computer Science & Engineering, GK(DU), Haridwar. This issue reflects the department's continuous efforts to foster technical excellence, innovation, and holistic development among our students.

During this quarter, the department successfully organized a series of enriching academic and professional activities, including workshops on Cloud Computing and Artificial Intelligence, aimed at familiarizing students with emerging technologies and industry trends. The Student Induction Program provided a strong foundation for newcomers, helping them smoothly transition into academic life while understanding the values, culture, and opportunities offered by the university. In addition, a Workshop on Career Opportunities guided students in making informed career choices, while the Geeks for Geeks Program strengthened problem-solving skills and coding proficiency through hands-on learning.

This magazine captures the enthusiasm, participation, and achievements of our students and faculty throughout these initiatives. I extend my sincere appreciation to all contributors, coordinators, and participants whose dedication made these programs successful. I hope this edition inspires readers to continue exploring, learning, and innovating in the ever-evolving field of Computer Science and Engineering.

I extend my heartfelt appreciation to the editorial team, student contributors, and faculty mentors for their efforts in putting together this edition. May it serve as a source of inspiration and pride for all members of our community.

Looking ahead, we remain excited for the journey ahead — one marked by learning, innovation, and shared growth.

Happy Reading!



Dr. Mayank Aggarwal
Professor & Head
Department of Computer Science &
Engineering
GK(DU), Haridwar

- **Dr. Mayank Aggarwal** Authored a Chapter titled “Navigating the ethical cross roads of generative AI in healthcare” in Book titled **Generative AI in Healthcare** by CRC Press(Taylor & Francis), July 2025. ISBN-9781003408246.
- **Dr. Mayank Aggarwal** Authored a Chapter titled “Securing and Authenticating Vedic documents : A blockchain based approach” in Book titled “Advances in mathematics for engineering sciences” by Springer, Sept, 2025. e book ISBN-978-3-031-95693-5.
- **Dr. Suyash Bhardwaj** Published a paper on “Advanced Forecasting with AEGRU: A Robust Approach for Stock Market Time Series” in **EVERGREEN - Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy**, Vol. 12, Issue 03, pp. 1762-1773, September 2025, ISSN:2432-5953 (Online).
- **Mr. Kuldeep Giri** Authored a Chapter titled “Calorimetric Nanobiosensors: Revolutionizing Precision Agriculture for Sustainable Crop Management” by Springer Nature, July 2025.
- **Mr. Kuldeep Giri** Attended the AICTE Training and Learning (ATAL) Academy FDP on "Modern Computer Vision" from 8 Sep to 19 Sep 2025 organized by EICT, MNIT, Jaipur.

»»» Orientation Program by Tata Drive & Bajaj Auto

An Orientation Program on Total Quality Management (TQM) was organized on 29th July 2025 by Tata Strive and Bajaj Auto under the CSR initiative of the Tata Group. The program aimed at training students and making them industry ready by introducing them to the concepts and importance of quality management in professional life. A total of 66 students participated in the session, which was coordinated by Dr. Suyash Bhardwaj.

The session began with a welcome address followed by expert talks delivered by the speakers, Mr. Deepak Sharma and Mr. Saurabh Srivastava. Mr. Deepak Sharma highlighted the principles of Total Quality Management and discussed its practical applications in industrial practices, emphasizing how quality standards impact productivity and efficiency. Mr. Saurabh Srivastava focused on the role of teamwork, discipline, and continuous improvement in creating a culture of quality, while also stressing the need for students to align themselves with industry expectations. Throughout the program, students actively engaged in interactive discussions, clarified their doubts, and gained valuable insights into the importance of quality in every aspect of work. The orientation not only enhanced their knowledge of TQM but also motivated them to adopt professional discipline, teamwork, and a positive mindset in their training journey.

Overall, the Orientation Program on Total Quality Management proved to be an informative and inspiring event. It successfully created awareness among students about the significance of quality practices in industry and encouraged them to prepare themselves for future career opportunities. The initiative by Tata Strive and Bajaj Auto through CSR funding is playing a vital role in empowering youth with the right skills and knowledge to become industry ready.



»»» EUREKA-2025 Pitching Competition

The Entrepreneurship Cell of our college successfully organized the EUREKA-2025 Pitching Competition, an initiative under the umbrella of IIT Bombay's Eureka! 2025. The competition aimed to foster entrepreneurship, provide exposure to early-stage startups, and connect aspiring entrepreneurs with mentors and evaluation opportunities. The event also served as a gateway for participants to secure a fast-tracked evaluation for Eureka's Zonal Round.





»»» Student Induction Program on Placement and NPTEL

A Student Induction Program was organized on 28th August 2025 on the topic Placement and NPTEL. The session was conducted to guide students about career opportunities, industry expectations, and the importance of online learning platforms for skill development. The program was coordinated by Dr. Aman Tyagi, and the speaker for the session was Dr. Suyash Bhardwaj.

In his address, Dr. Bhardwaj explained the significance of placement preparation and highlighted the essential skills required to succeed in recruitment processes. He provided valuable insights on resume building, communication skills, aptitude training, and interview techniques, which are crucial for enhancing employability. Alongside placement guidance, he also emphasized the role of NPTEL courses in expanding knowledge, gaining certifications, and staying updated with industry trends. He encouraged students to actively enroll in NPTEL programs to strengthen their academic as well as professional profile.

Overall, the Student Induction Program on Placement and NPTEL proved to be extremely informative and motivating. It inspired students to take ownership of their learning journey, prepare systematically for placements, and utilize platforms like NPTEL to enhance their technical and professional skills.



Department of Computer Science & Engineering
Quarterly Newsletter - July - Sep 2025

»»»Teacher's Day Program

A Teacher's Day program was organized on 5th September 2025 to honor and celebrate the invaluable contributions of teachers in shaping the future of students and society. The program was coordinated by Dr. Suyash Bhardwaj, who ensured its smooth execution and active participation of students and faculty members. The event began with a warm welcome to the teachers, followed by cultural performances, speeches, and expressions of gratitude by students highlighting the significance of teachers as guides, mentors, and role models. The atmosphere was filled with respect, appreciation, and joy as students acknowledged the hard work, dedication, and sacrifices of their teachers. The program concluded with words of encouragement and blessings from the teachers, making the occasion memorable and inspiring for everyone present.

The celebration not only strengthened the bond between teachers and students but also created a platform for students to showcase their talents through poems, songs, and skits dedicated to their mentors. The enthusiasm and heartfelt participation reflected the deep admiration and gratitude students hold for their teachers. The program served as a reminder of the vital role teachers play in nurturing young minds and inspiring them to achieve excellence. Overall, the Teacher's Day program was a grand success, leaving behind cherished memories and reinforcing the spirit of respect and admiration towards the teaching fraternity.



Department of Computer Science & Engineering
Quarterly Newsletter - July - Sep 2025

»»» Workshop on Career Opportunities in Civil Services

Workshop on Career Opportunities in Civil Services successfully organized at Faculty of Engineering and Technology, Gurukul Kangri University Haridwar, 12 September 2025: The team of the reputed coaching institute Vajiram & Ravi organized an inspirational and informative workshop on the topic “Career Opportunities in Civil Services” at the Faculty of Engineering and Technology (FET), Gurukul Kangri (Deemed to be University), Haridwar.

The session was conducted under the leadership of experienced experts of the institute, Mr. Samar and Mr. Akash. On this occasion, Dr. Suyash Bhardwaj, Training and Placement Officer and Incharge CAOC of the University, while coordinating the program, said that the aim of the workshop is to provide direct guidance to the students about the preparation, strategy, and opportunities of civil services. A total of 65 students actively participated in this workshop and during the session, the students asked many important questions.

The speakers shared their personal experiences and guided the students on the selection process, preparation methods, strategies and personal experiences of the civil services. The most notable feature of the workshop was the active participation of 65 students, which played a vital role in making the event a success. During the entire session, the students asked many inquisitive questions related to the selection process of civil services, choice of optional subjects, time management, interview preparation and changing pattern of examination.



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»»» Geeks for Geeks GKV

The orientation session for the Geeks for Geeks Student Program Haridwar Chapter was held on 13th September 2025 at the Old Seminar Hall, Faculty of Engineering and Technology, Gurukul Kangri Vishwavidyalaya. The session primarily focused on the freshmen of the Computer Science and Engineering Department.

The orientation session was led by members of the GFG student body from various academic years, including: Amarpreet, Shivansh, Adarsh, and Ishaan (5th semester) and Aditya and Nakul (3rd semester).

The orientation session aimed to guide the incoming B.Tech batch, providing them with insights into various technical domains. The key focus areas were: 1. Artificial Intelligence / Machine Learning (AI/ML) 2. Data Structures and Algorithms (DSA) 3. Cloud Computing 4. GATE Preparation.

The session offered a combination of talks, discussions, and one-on-one interactions. Key highlights include: 1. **Market Trends:** Emphasis on the growing significance of technology in diverse industries. 2. **Industry Demands:** A discussion on the skills most sought after in the tech world. 3. **Doubt-Clearing Session:** Open forum for students to ask questions, share their curiosity, and explore career aspirations.

The session concluded with an inspiring speech by Dr. Mayank Agarwal, the Head of the Computer Science and Engineering Department. He extended his best wishes to both the GFG team and the freshmen for a successful and productive academic year.

Department of Computer Science & Engineering
Quarterly Newsletter - July - Sep 2025



»»» Workshop on Cloud Computing

A Workshop on Cloud Computing was organized on 16th September 2025 to provide participants with practical knowledge and insights into modern cloud technologies. The event was coordinated by Dr. Suyash Bhardwaj, who efficiently managed all arrangements to ensure the success of the program. The session was conducted by Mr. Baiju Kumar, an expert in cloud infrastructure and services, who delivered an engaging and informative talk on the fundamentals and applications of Cloud Computing.

During the workshop, Mr. Baiju Kumar explained key concepts such as cloud architecture, virtualization, service models (IaaS, PaaS, SaaS), and deployment types (public, private, and hybrid clouds). He also demonstrated how cloud platforms like AWS, Microsoft Azure, and Google Cloud are transforming the IT industry by providing scalable and cost-effective solutions. Participants actively interacted with the speaker, clarifying their doubts and gaining hands-on exposure to cloud-based tools.

The workshop concluded with a vote of thanks to Mr. Baiju Kumar for sharing his valuable expertise and to Dr. Suyash Bhardwaj for his effective coordination. Overall, the session proved to be highly informative and motivating, enhancing participants' understanding of Cloud Computing and its immense potential in shaping the future of technology.

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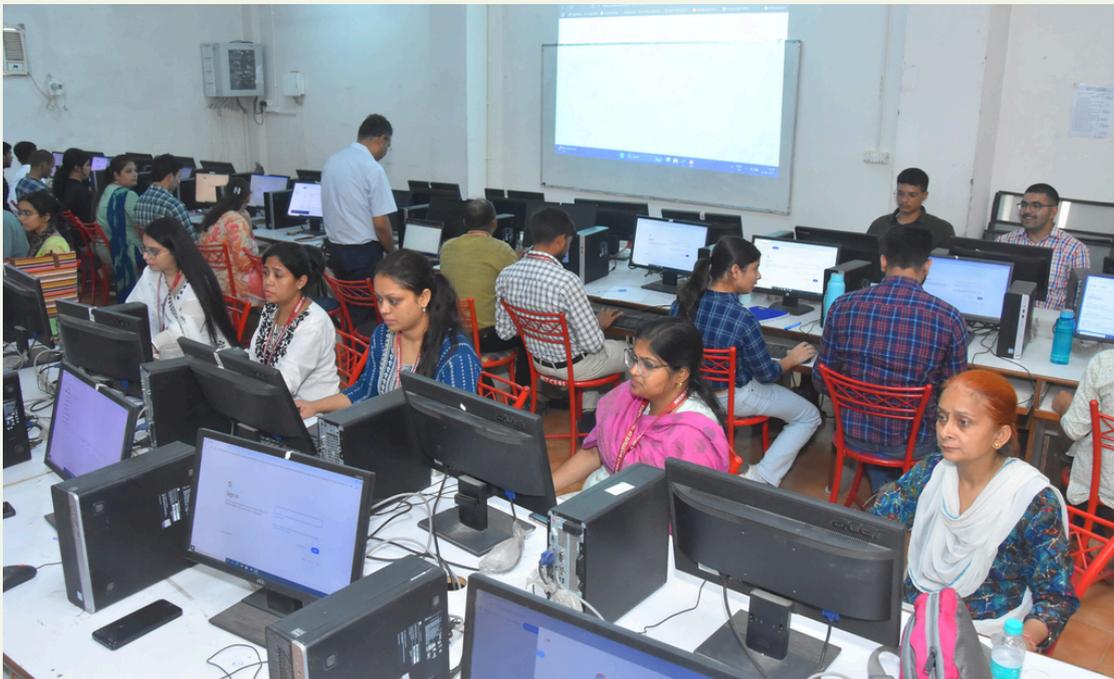
LECTURES DELIVERED

▶▶▶ AICTE SPONSORED ATAL FDP ON “ARTIFICIAL INTELLIGENCE(AI) “ MIT,MEERUT

The AICTE Training and Learning (ATAL) Academy-sponsored Faculty Development Programme (FDP) on “Artificial Intelligence” was successfully conducted at Meerut Institute of Technology (MIT), Meerut, from 16th to 21st June 2025. The FDP aimed to enhance the knowledge base of faculty members in the domain of Artificial Intelligence (AI), focusing on both foundational concepts and emerging trends. The FDP witnessed active participation from faculty members across various engineering and technical institutions. The sessions were designed to cover theoretical foundations, practical implementations, and hands-on exercises using AI frameworks.

A key highlight of the FDP was the engaging and informative session conducted by Dr. Mayank Aggarwal, an esteemed expert in the field of Artificial Intelligence. Dr. Aggarwal’s delivery was highly appreciated by the participants for its clarity, depth, and practical orientation. The session included interactive Q&A, where participants actively engaged. From this session, participants gained a deeper understanding of core AI concepts and their practical utility. The AICTE Sponsored ATAL FDP on “Artificial Intelligence” at MIT, Meerut, concluded successfully with enthusiastic participation and positive feedback.

Unlock the power of technology to revolutionize learning



Department of Computer Science & Engineering
Quarterly Newsletter - July - Sep 2025

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»»» AWARDS RECEIVED

Dr. Suyash Bhardwaj Awarded with Special Aspirant Active SPOC Award for Jan – Apr 2025 Session at NPTEL SPOC Felicitation workshop at IIT, Kanpur on July 12, 2025 by National program on technology enhanced learning, NPTEL, Govt. of India.



The Ancient Stars

By Parth Mishra (CSE Dept)

The first thing I noticed wasn't the alarm. It was the lack of hum.

You get used to the specific, expensive vibration of a Boeing's avionics deck. When the screens died—all six of them at once—that vibration vanished, replaced by the terrifying, hollow sound of wind rushing over the nose cone.

It was 2:00 AM over the Pacific. Total electrical failure.

Captain Neil didn't say anything cinematic like "We have a problem." He just slammed his hand against the breaker panel and swore. "NavIC is gone. GPS is gone. I have zero telemetry. Parth, check the backup inertial unit."

I unbuckled, my hands shaking so bad I fumbled the latch twice. I checked the rack behind us. "Fried," I said, my voice sounding tinny in the sudden quiet. "The breaker is hot to the touch. It's a complete blowout. Solar flare, maybe?"

"Great," Neil spit out. "We're flying a sixty-ton paperweight at 500 knots. Without a location lock, the autopilot won't engage descent. If we drift off-course, we burn fuel until we drop."

I sat back down, staring at the black glass of the windshield. My stomach felt like I'd missed a step on a staircase. I was a Junior Systems Intern. I was supposed to be logging server temperatures, not navigating the apocalypse.

Then, I remembered the iPad in my backpack.

It was a side project inspired by our Algorithm Design class. We were learning about computational geometry, and I realized that while GPS signals are temporary, the angles between stars are eternal. I wanted to see if I could capture that permanence in Python.

"Cap," I said, digging through my bag. "Kill the cockpit lights."

Neil turned to look at me, his face illuminated only by the emergency battery light. "What?"

"The cockpit lights. Kill them. I need the glass dark."

"I'm trying to fly a dead plane, and you want to nap?"

"It's not a nap, Cap. It's Project Polaris."

I didn't wait for permission. I jammed a USB-C cable into the side of the HUD projector. It wasn't compatible, so I had to hold it in place with my thumb, praying the connection wouldn't drop. I launched Termux on my tablet.

```
$ python3 main.py --source camera_01
```

The script was heavy. My tablet lagged. For three seconds, nothing happened. I held my breath, thinking about the bugs I hadn't fixed.

Then, a terminal window flickered onto the windshield.

```
Loading Neural Network...
```

```
Dataset: ANCIENT_MARINER_V4.csv
```

```
Source: 15th Century Naval Charts & ISRO Star Catalogs
```

A jittery green box appeared on the glass, scanning the darkness above us. It wasn't looking for satellites. It was looking for patterns.

```
Identifying...
```

```
Object 1: Ursa Major.
```

```
Object 2: Cassiopeia.
```

```
Calculating Angle of Incidence...
```

"What is that?" Neil asked, his voice quieter now.

"The Vikings used it. The Polynesians used it," I said, watching the code compile real-time trigonometry. "My model doesn't need a signal. It just needs the sky."

A bright green line drew itself across the glass, connecting three faint stars.

```
>> ERROR CORRECTION: TRUE NORTH FOUND. VARIANCE 0.04 DEGREES.
```

"It's acting like a digital sextant," I explained, my thumb cramping against the cable. "It's measuring the angle of Polaris relative to the horizon. It says we're drifting South. You need to correct left. Heading 270."

Neil looked at the primitive green text floating over the stars. He looked at his dead million-dollar dashboard. Then he looked at me.

"Trust the math, Cap," I whispered.

He pulled the yoke left.

We flew like that for twenty minutes—guided by a 500MB Python script and light that was a thousand years old. When the lights of Mumbai airport finally broke through the clouds, they glowed with the steady, reassuring hum of civilization. It was a synchronized grid of electricity and safety that burned through the fog, the most beautiful thing I'd ever seen.

We hit the tarmac hard—a double bounce that rattled my teeth—but we were down. As the engines spooled down, I finally let go of the cable. The green code on the windshield flickered and died.

Neil exhaled, a long, shaky breath. He wiped sweat from his forehead with the back of his sleeve.

"That script," he said, staring out at the runway.

"What's the repo name?"

I looked down at my tablet. The battery was at 2%.

"It's just a prototype, Sir," I said, closing the terminal.

STUDENT'S PLACEMENT

Congratulations to Amit Kumar Jindar from Computer Science & Engineering (CSE) Department for getting Placement in **Academiaguru**.

Congratulations to Mradul Mishra from Computer Science & Engineering (CSE) Department for getting Placement in **IBM Consulting**.

Congratulations to Shashank Kumar Tripathi from Computer Science & Engineering (CSE) Department for getting Placement in **IBM Consulting**.

Congratulations to Gokul V from Computer Science & Engineering (CSE) Department for getting Placement in **ACMEGRADE**.

Congratulations to Divanshu Nautiyal from Computer Science & Engineering (CSE) Department for getting Placement in **Webkul Softwares**.

Congratulations to Manish Kumar Akela from Computer Science & Engineering (CSE) Department for getting Placement in **Webkul Softwares**.

Congratulations to Priyanshu Tyagi from Computer Science & Engineering (CSE) Department for getting Placement in **Paytm**.

Congratulations to A M SANJEEV from Computer Science & Engineering (CSE) Department for getting Placement in **Qspiders training incubation**.

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