CENTRE FOR CAREER DEVELOPMENT
IIT GUWAHATI

Department Placement Brochure.

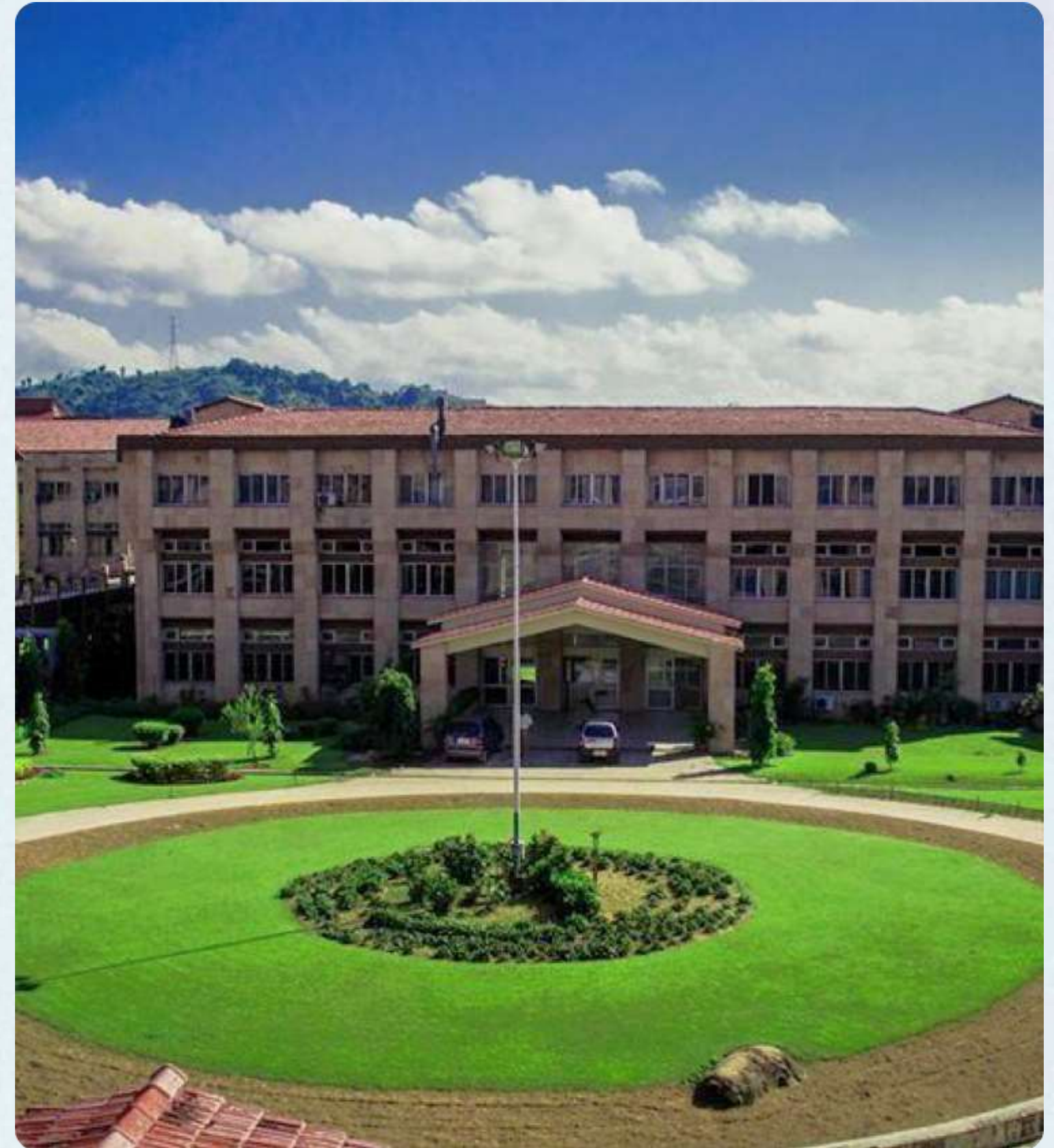BATCH OF 2026 | Department of Computer Science and Engineering

About IIT Guwahati.

Established in 1994, Indian Institute of Technology Guwahati is the sixth member of the IIT fraternity and one of India's premier institutions for higher education, research, and innovation. Within a short span, the Institute has emerged as a global centre of excellence in science, technology, management, and design.   The picturesque campus spans 285 hectares on the northern bank of the Brahmaputra River, approximately 20 km from the heart of Guwahati city. Surrounded by scenic hills and open spaces, it offers a perfect environment for learning, research, and holistic development. IIT Guwahati offers a wide array of academic programmes including B.Tech., B.Des., BSc (Hons), M.Tech., M.Des., M.Sc., MBA, M.A., MS(R) and Ph.D. across 11 departments, 9 interdisciplinary centres, and 5 schools, covering major disciplines in engineering, science, humanities, healthcare, and management.

The Institute has built world-class infrastructure and houses state-of-the-art laboratories and National Centres of Research that support cutting-edge research. Students are encouraged to take up interdisciplinary coursework, pursue minor degrees, and choose from a rich variety of open and interdepartmental electives. IIT Guwahati has signed MoUs with top international universities, facilitating semester exchanges and summer internships, thereby broadening students' global exposure. Our students regularly intern at leading global firms and research institutions, gaining invaluable real-world experience.

Ranked among the top 100 world universities under 50 years by Times Higher Education (THE), IIT Guwahati continues to excel globally. The Institute was ranked 42nd globally in 'Research Citations per Faculty' and 344th overall in QS World University Rankings.

About the Department .

Vision
To be a globally acclaimed center of excellence in Computer Science and Engineering, committed to nurturing innovation and advancing knowledge that drives societal progress.
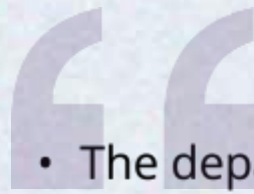
Mission
- To provide a collegial and stimulating environment for achieving academic excellence through rigorous B.Tech., M.Tech., and Ph.D. programs.

- To undertake world-class, interdisciplinary research across a broad spectrum of cutting-edge fields, including AI, ML, Computer Vision, and security.

- To leverage state-of-the-art infrastructure and computing facilities to support groundbreaking research and educational activities.

- To foster a vibrant community of students and faculty, encouraging extracurricular engagement through active student organizations like the ACM Chapter and CSEA.

The Department of Computer Science and Engineering was formed in the year 1995. Over the years, the department has strengthened its research activities, has state-of-the-art infrastructure and computing equipment supported by high speed Ethernet and wireless networks.

From the desk of HOD.

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- The department of Computer Science and Engineering was established in 1995 during the time of the inception of Indian Institute of Technology Guwahati. The department started with an undergraduate course for B.Tech. in Computer Science and Engineering with an intake of 30 students. Currently, the department admits 124 BTech students, 68 MTech students each year and there are around 120 PhD students in the department. We are dedicated to excellence in research and teaching. The main focus of the department is on doing basic research and solving important problems in the core and emerging areas of Computer Science and Engineering, as well as important problems of the society.

- The department periodically upgrades its course curriculum for catering to the need of industry and research and maintains state-of-the-art laboratories for both hardware and software domains. The department has a flourishing research environment with active research groups in the areas of Theoretical Computer Science, Computer Architecture and Embedded Systems, Computer Systems, Man-Machine Interfaces, and Artificial Intelligence, Machine Learning and Data Mining. The department is involved in many significant research projects sponsored by the government and industries. We have a pool of active and energetic research students and have won many accolades in recent times. Many of them have obtained prestigious external fellowships and various best paper awards at conferences.

- Graduates from the department of all programmes secure excellent placements. A large number of our Alumni are successful in different careers and many of them occupy top positions in both academia and industry all over the world, and some of them have founded successful enterprises.

Dr. Tamarapalli Venkatesh

Head of the Department

From Department Faculty Representative.

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- The Department of Computer Science and Engineering at the Indian Institute of Technology Guwahati is one of the most vibrant departments of the institute. The Department offers B.Tech. , M.Tech. , and Ph.D. programs in Computer Science and Engineering. The curricula are designed to equip students with state-of-the-art knowledge and skills in emerging technologies.
- Our esteemed faculty members deliver core courses in all fundamental areas of Computer Science, including Data Structures, Algorithms, Computer Architecture, Theory of Computation, Databases, Computer Networks, and Digital Design, among others. In addition, we conduct rigorous laboratory courses in Programming, Data Structures, Hardware, System Software, Programming Languages, and Software Engineering.
- The Department also offers a wide range of advanced courses such as Machine Learning, Topics and Tools in Social Media, Data Mining, Neural Networks for NLP, Mobile Robotics, Algorithmic Game Theory, Multimedia Systems, Computer Vision using Machine Learning, C-based VLSI Design, CAD for VLSI, Advanced Architectures, ML for EDA, Formal Methods for System Verification, Virtual and Augmented Reality, Computational Number Theory and Cryptography, and many more.
- Our students are exceptionally skilled coders and consistently perform well in prestigious competitions such as the International Collegiate Programming Contest (ACM ICPC). They represent some of the finest talent in India, and I am confident that they will excel in all their future endeavours.
- For recruiters, it is truly an opportunity to have such bright and capable individuals on board. I extend my best wishes to all our students for their placements and future careers.

Dr. Chandan Karfa

Department Faculty Representative

Demographics.

Undergraduate Program – B.Tech (124)

The Department of Computer Science and Engineering at IIT Guwahati is renowned for its state-of-the-art undergraduate education, which prepares students for real-world challenges. We attract the brightest students in the country, who achieve top ranks in the IIT-JEE, arguably the toughest entrance exam for any academic institution. Our alumni have done exceptionally well, managing top companies, designing revolutionary products, and contributing to fundamental research. In addition to a comprehensive course structure that offers an optimal mix of compulsory and elective courses to explore their interests, students also gain valuable industrial experience as interns and work on a B.Tech Project in their final semester.

Postgraduate Program – M.Tech(69)

The CSE department at IIT Guwahati invites outstanding candidates to pursue a Masters of Technology (M.Tech.) degree. This program allows students to take specialized courses and develop their research skills through a year-long project, which is integrated into the department's ongoing research and development initiatives. The courses are designed to challenge student intellect and advance their knowledge in various subjects. Engineering graduates from a Computer Science and Engineering background, including both freshers and experienced professionals, are selected for this program based on very good ranks in the National level GATE exam.

Postgraduate Program – Ph.D(17)

The doctoral program in Computer Science and Engineering offers students the possibility of doing intensive research in an area of their choice. The Computer Science and Engineering Department has a vibrant research program consisting of about 120 Ph.D. students, and it has been the CSE department's constant endeavor to provide the best facilities and working environment to the research students. Ph.D. students often collaborate with researchers within and outside the country. It is common, and regularly encouraged, for students to spend time at collaborating institutions in academia and industry. Our students regularly publish research results in leading international conferences and reputed journals.

Courses Offered.

- Algorithms and Data Structures
- Computer Networks
- Operating Systems
- Database Management Systems
- Digital Design
- Computer Architecture and Organization
- Software Engineering
- Formal Languages, Automata Theory, and Computation
- Machine Learning
- Discrete Mathematics

- Design and Analysis of Algorithms
- System Software
- Introduction to Computing
- Formal Methods for System Verification
- Hardware Laboratory
- Optimization
- Elementary Number Theory and Algebra
- Probability Theory and Random Processes

Department Electives.

- Machine Learning
- Artificial Intelligence
- Topics and Tools in Social Media Data Mining
- Speech Processing
- Neural Networks for NLP
- Mobile Robotics
- Mobile Computing
- Machine Learning using Cloud Computing
- Data Analysis For Machine Learning
- Algorithmic Game Theory
- Parallel Computer Architecture
- Computer Vision Using Machine Learning
- Deep Learning

- Introduction to Natural Language Processing
- Intelligent Systems and Interfaces
- Randomized Algorithms
- Formal Methods for System Verification
- Human Computer Interaction
- Advanced Compilers
- C Based VLSI Design
- Virtual and Augmented Reality Systems
- Computational Number Theory and Cryptography
- Formal Modelling and Analysis of Cyber-Physical Systems and many more
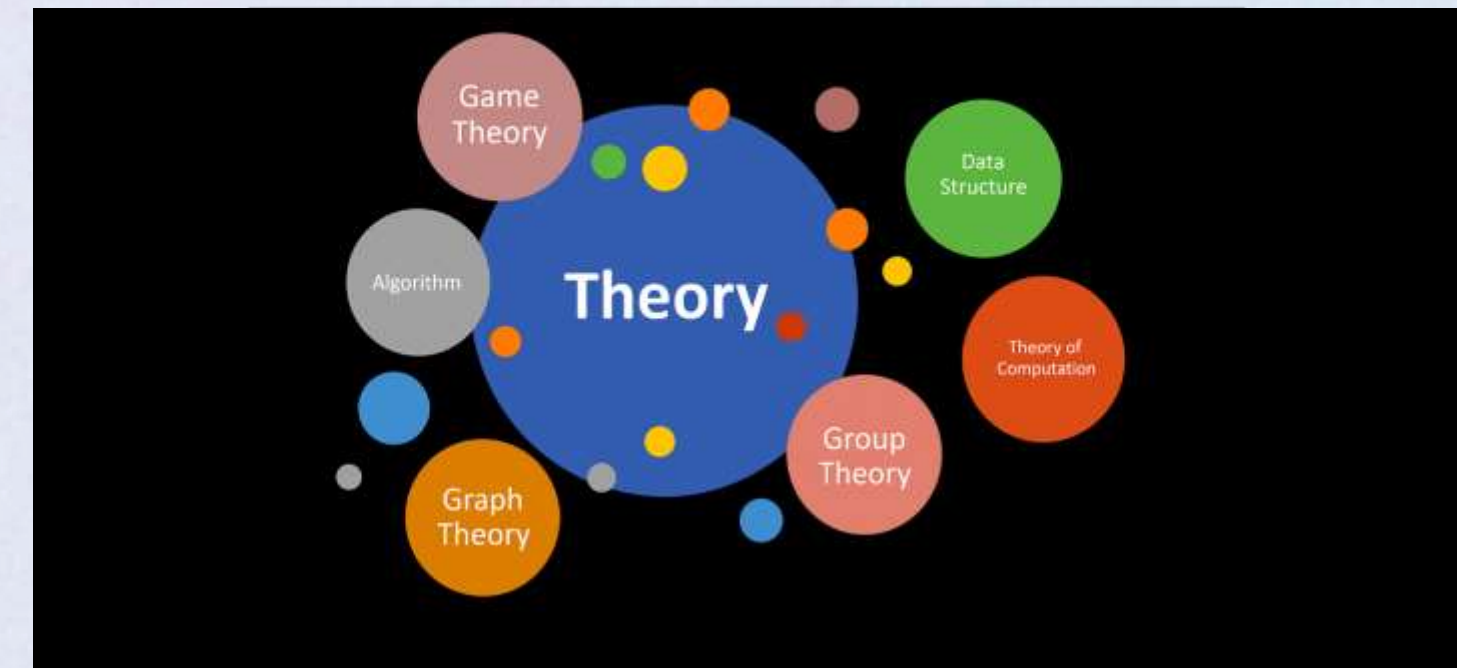
Key Research Areas.

Artificial Intelligence, Machine Learning and Data Mining

- Artificial Intelligence
- Machine Learning
- Data Mining
- Computer Vision
- Speech Processing
- Natural Language Processing
- Media Forensics
- Complex Networks

Theoretical Computer Science

- Data Structures and Algorithms
- Logic and Formal Methods
- Parallel Algorithms
- Game Theory
- Distributed Algorithms
- Randomized Algorithms
- Discrete Mathematics

Key Research Areas.

Artificial Intelligence, Machine Learning and Data Mining

- Computing and Storage
- Communications and Networking
- Security and Privacy
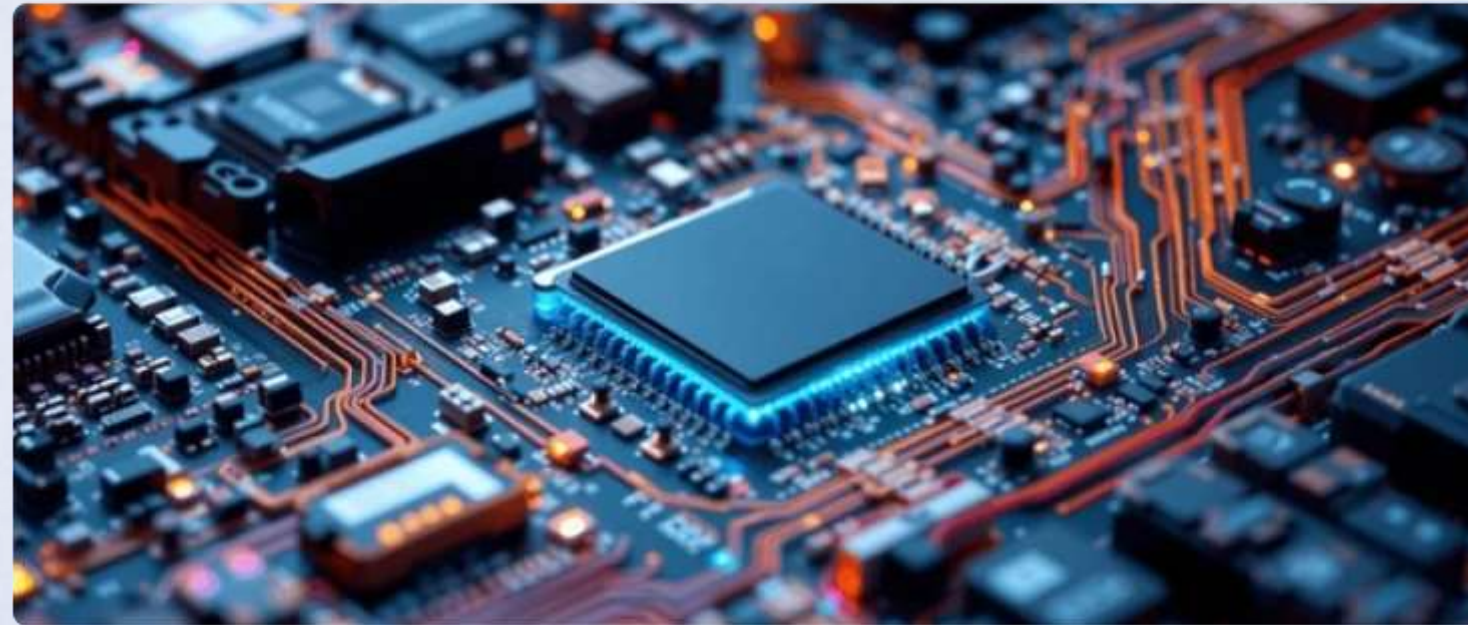
Man-Machine Interfaces

- Speech Processing
- Speaker characterization
- Low resource speech modeling
- Image characterization and modeling

- Mobile Agent-based Systems
- User-centric computing
- Virtual and augmented reality
- Smart systems and interfaces

Key Research Areas.

Computer Architecture and embedded systems

- Formal Verification
- VLSI Testing
- Embedded and Cyber-Physical Systems
- Memory processing and Machine learning accelerators
- Networks on Chip

- Hardware Security
- Hardware Approximate Computing
- ML for EDA
- Electronic Design Automation

Instrument Facilities/ Laboratories.

- Robotics Lab
- Speech Lab
- IDS Lab
- ISEA Lab
- VLSI Lab
- Aakash Lab
- IOT Lab
- RTDLS Lab
- Hardware, Peripherals and Embedded Systems Lab
- MARS Lab
- Multimedia Lab
- OSINT Lab
- Network System and Security Lab
- Susma Lab
- User Centric Computing & Networking Lab
- HPCA Lab
- AMaL Lab
- AVS Lab
- EARLY Lab

Hardware Lab

Network systems and Security Lab

Susma Lab

IDS Lab

MARS Lab

IOT lab

User Centric Computing & Networking Lab

Robotics Lab

Major Achievements.

Students Achievements:

Students of the CSE Department actively participate in leading national and international competitions, earning distinctions in programming, quant, product design, robotics, and communications research.

- **ICPC Asia West, 2024:** Represented our college at the prestigious Asia-West regional round of the world's largest programming contest.
- **Inter IIT Tech. Meet 13, 2024:** Secured multiple medals in Optimization, Quant, and Product Development problem statements.

- **GS World Possibilities Summit 2025:** Selected as finalists in this highly competitive global career development program.

- **IEEE ComSoc Student Competition 2025:** Ranked among the Top 15 teams worldwide for innovative communication systems research.

- **IMC Launchpad Programme 2025:** Among the Top 25 students across 7 IITs chosen for this elite quant trading technology program.

- **IEEE Robotics Competitions 2025:** Secured multiple national and international recognitions in autonomous and robotic system challenges.

- **Google Girl Hackathon 2025:** Advanced to the semi-finals among thousands of participants across India.

Past Recruiters.

Contact Details.

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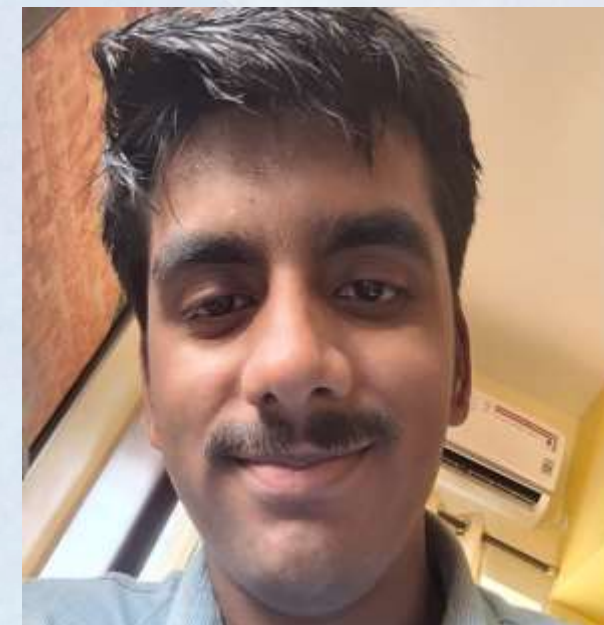Department Placement
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