



CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

M.TECH IN DATA SCIENCE.

Batch of 2027 | Placement Brochure 2026-27



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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.

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



Director's Message



Indian Institute of Technology Guwahati was established in 1994 by an Act of Parliament. The academic programme started with 65 students in three undergraduate programmes in 1995. The total number of students across eleven departments, nine academic centres and five schools is now around 8600. The institute has a full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship.

IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, and has been ranked the 11th best university in the country. It gained 42nd position globally in 'Research Citations per Faculty' and 344th overall in the QS World University Rankings 2025, and ranks 6th globally in SDG 7 of the THE Impact Rankings 2023.

The institute has a very good central library, international-standard sports facilities, and extensive facilities for cultural and creative activities. IIT Guwahati hosts two supercomputing facilities, PARAM-Kamrupa (838 TF) and PARAM-ISHAN (250 TF), supporting research in weather and climate, bioinformatics, computational chemistry, AI, machine learning and data science.

IIT Guwahati features in the coveted list of young universities (under 50 years of age) of the world selected by Times Higher Education, the only Indian entry to this elite list. I cordially invite all prospective employers to visit IIT Guwahati and to participate in the on-campus placement and internship processes.

With Best Wishes,

Prof. Devendra Jaliha

Director, IIT Guwahati

PROGRAMME OVERVIEW

About M.Tech Data Science

The M.Tech in Data Science programme, initiated in 2019, provides a strong foundation in the principles of data science and machine learning, with practical exposure through projects, laboratories, and research-driven coursework.

With carefully structured courses aligned to current research and industry trends, the programme bridges theoretical knowledge with hands-on applications, preparing students for both academic research and professional success.

A key strength lies in its interdisciplinary approach, fostering collaboration across Computer Science, Electronics and Electrical Engineering, and Mathematics. This helps students tackle complex real-world problems and apply data-driven methods across diverse fields.

The programme emphasizes innovation, adaptability, and continuous learning, nurturing students to thrive in a rapidly evolving technological landscape.

To ensure graduates are industry- and research-ready, it integrates training in statistics, natural language processing, computer vision, deep learning, and large language models, equipping students with the technical skills, leadership qualities, and problem-solving mindset that emerging challenges demand.



Messages from our Leadership



MESSAGE FROM THE HEAD OF SCHOOL



With great pride, I introduce our batch of M.Tech students in Data Science, graduating in 2027. Our curriculum, designed for the AI-driven future, blends rigorous theoretical foundations with practical, hands-on experience.

The batch of 2025–27 has been trained in statistical modeling, machine learning, optimization, and real-world data science applications.

By choosing our graduates, you are partnering with future leaders and innovators in Data Science and AI, equipped to drive technological advancement and data-driven decision-making.

We look forward to building lasting partnerships that will shape the future of AI.

With Best Wishes,

Prof. Ratnajit Bhattacharjee

Head, Mehta Family School of Data Science and Artificial Intelligence



MESSAGE FROM THE PLACEMENT COORDINATOR



I am happy to present our batch of M.Tech graduates in Data Science, meticulously prepared for the evolving demands of the industry.

They bring cutting-edge ML skills, practical experience from internships and industry collaborations, and an interdisciplinary grounding spanning finance, healthcare, statistics, NLP, reinforcement learning and computer vision.

They also bring a strong foundation in ethical AI and research.

Our dedicated placement cell, the Centre for Career Development (CCD), works closely with industry partners to match student expertise with your needs.

With Best Wishes,

Neeraj Kumar Sharma

Faculty School Placement Coordinator

Know our Mentors

Faculty with diverse expertise spanning data science and AI guide students in strengthening their research, technical skills, and professional growth.



M. K. Bhuyan

Professor

ML & Deep Learning, Computer Vision, Image/Video Processing, HCI, VR/AR



Rafikul Alam

Professor

Linear & Numerical Linear Algebra, Spectral Perturbation Theory



Ashok Singh Sairam

Professor

Computer Networks and Network Security



Gaurav Trivedi

Professor

Circuit Simulation & VLSI CAD, Hardware Security, Embedded Systems & IoT, ML



Prithwijit Guha

Associate Professor

Computer Vision, Pattern Recognition, Signal Processing, Robotics



Debanga Raj Neog

Assistant Professor

Computer Vision, Deep Learning, Graphics & AR/VR, Computational Imaging



Arghyadip Roy

Assistant Professor

Reinforcement Learning, Markov Decision Processes, Stochastic Control



Chiranjib Sur

Assistant Professor

Deep Learning, NLP/NLU, Recommendation Systems, Scalable Big Data



Prashant W. Patil

Assistant Professor

Computer Vision, Deepfake Detection, Multi-Weather Image Restoration



Know our Mentors

**Amulya Kumar Mahto**

Assistant Professor

Statistical Modeling, Reliability, Classical & Bayesian Estimation

**Teena Sharma**

Assistant Professor

AI/ML for Image Enhancement, Object Recognition, Biomedical Data

**Ayon Borthakur**

Assistant Professor

Embedded AI, Neuromorphic Computing, Computational Neuroscience

**Palash Ghosh**

Assistant Professor

Reinforcement Learning, Personalized Medicine, Clinical Statistics

**Dipankar Mondal**

Assistant Professor

Financial Risk Modeling, Sustainable Finance, Portfolio Optimization

**Rhythm Grover**

Assistant Professor

Parameter Estimation for Signal Processing Models, Robust Statistics

**Neeraj Kumar Sharma**

Assistant Professor · Placement Coordinator

Speech, Audio & EEG Signal Processing, Multimodal AI, Neuro-AI

**Kuntal Deka**

Assistant Professor

Communication, Error-Correcting Codes, Information Theory

**Ayon Ganguly**

Assistant Professor

Lifetime Data Analysis, Statistical Inference



Why Recruit Us?

Two years of mathematically rigorous training, engineered for industry practice. Our graduates arrive fluent in the theory behind modern AI and in the tooling that ships it.

WHAT THE CURRICULUM BUILDS

Statistical & Mathematical Core

Statistical Foundations, Stochastic Models, Matrix Computations, Optimization Techniques.

IN PRACTICE

Rigorous experiment design, A/B testing, forecasting, model diagnostics that hold up in production.

Machine Learning & AI

Machine Learning, Generative AI, Computer Vision, Image Processing, Recommendation System Design.

IN PRACTICE

LLM applications, RAG pipelines, vision systems, personalisation and ranking engines.

Systems & Engineering

Data Structures and Algorithms, Databases, Scientific Computing, Advanced Computer Architecture.

IN PRACTICE

Efficient, scalable code and data platforms built for production workloads.

Applied Laboratories

Python, R, Machine Learning, Data Visualization, Numerical Computation and Database Labs.

IN PRACTICE

Hands-on delivery from day one: clean pipelines, reproducible results, clear communication.

SEMESTERS · TWO TAUGHT, TWO OF RESEARCH

4

DEPARTMENTS · DS&AI, MATHEMATICS, EEE

3

TOOLCHAIN · COURSEWORK, PROJECTS AND INTERNSHIPS

Python, C/C++, R, SQL · PyTorch, TensorFlow, Scikit-Learn, Hugging Face ·
LangChain and LangGraph · Spark, Hadoop, Docker, Git · Tableau and Power BI.
The same stack our recruiters already run.

Research That Ships

A full year of the programme is a supervised Master's Thesis Project: a single hard problem carried from formulation to evaluation, the closest academic analogue to owning a workstream in industry.

Two semesters. One problem. Owned end to end. Literature review, data acquisition, modelling, evaluation and dissertation, with publication or industry collaboration encouraged.

THESIS DOMAINS & THEIR INDUSTRY COUNTERPART

AI & Large Language Models

Efficient fine-tuning, retrieval-augmented generation, agentic workflows, model compression.

IN INDUSTRY

Enterprise copilots, document intelligence, customer-support automation, on-device inference.

Computer Vision & Machine Learning

Detection and segmentation, multimodal representation learning, robustness under distribution shift.

IN INDUSTRY

Visual inspection and quality control, medical imaging, retail analytics, geospatial monitoring.

Autonomy & Wireless Systems

Sensor fusion, control and planning under uncertainty, learning for communication networks.

IN INDUSTRY

ADAS and robotics, telecom network optimisation, industrial IoT, edge intelligence.

Health & Climate Analytics

Biomedical signal and image analysis, spatio-temporal forecasting, risk modelling on noisy real-world data.

IN INDUSTRY

Clinical decision support, insurance and credit risk, demand forecasting, ESG and climate exposure.

01 Problem Framing

Turning an ambiguous brief into a measurable objective.

02 Messy Real Data

Sourcing, cleaning and labelling before any model exists.

03 Defensible Results

Peer-reviewed rigour in evaluation and written communication.

Curriculum Highlights

SEMESTER 1 · 9 COURSES

Core courses

Statistical Foundations for Data Science

Scientific Computing

Matrix Computations

Data Structures and Algorithms

Databases

Recommendation System Design

Data Structures and Databases Lab

Numerical Computations Lab

Python Programming Lab

SEMESTER 2 · 10 COURSES

Core & electives

Stochastic Models

Optimization Techniques

Machine Learning

Machine Learning Lab

R Programming Lab

Data Visualization Lab

DEPARTMENTAL ELECTIVES

Image Processing with Machine Learning

Computer Vision

Generative AI

Advanced Computer Architecture

SEMESTERS 3-4 · RESEARCH

Master's Thesis

Master's Thesis Project – I

SEMESTER 3

Students tackle an industry-relevant or research problem in AI, ML, computer vision, NLP, or optimization under faculty supervision.

Master's Thesis Project – II

SEMESTER 4

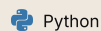
The thesis continues through implementation, evaluation, and dissertation, with publication in reputed venues or industry collaboration encouraged.

A two-year, full-time programme run by the Mehta Family School of DS&AI together with the Departments of Mathematics and EEE.

Technical Skills

We believe effective implementation is as crucial as analytical thinking. Our students are trained in the latest languages, frameworks, and tools of data science and AI. Together they bring the following stack to the table, ready to turn ideas into working systems.

Programming



Python



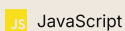
C



C++



Java



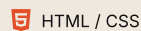
JavaScript



R



MATLAB



HTML / CSS

Mathematical Foundations

Probability & Statistics

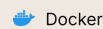
Linear Algebra

Optimization

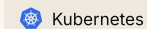
Software Development



Git



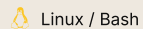
Docker



Kubernetes



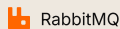
DevOps



Linux / Bash



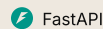
Kafka



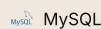
RabbitMQ



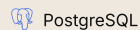
React



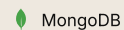
FastAPI



MySQL



PostgreSQL



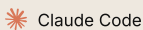
MongoDB



AWS



Azure

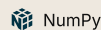


Claude Code

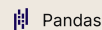


Antigravity

Data Science & AI



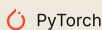
NumPy



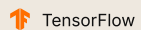
Pandas



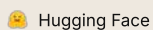
Scikit-learn



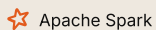
PyTorch



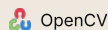
TensorFlow



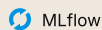
Hugging Face



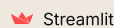
Apache Spark



OpenCV



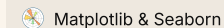
MLflow



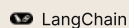
Streamlit



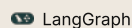
Airflow



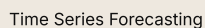
Matplotlib & Seaborn



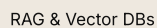
LangChain



LangGraph



Time Series Forecasting



RAG & Vector DBs

Machine Learning

Deep Learning

NLP

LLMs

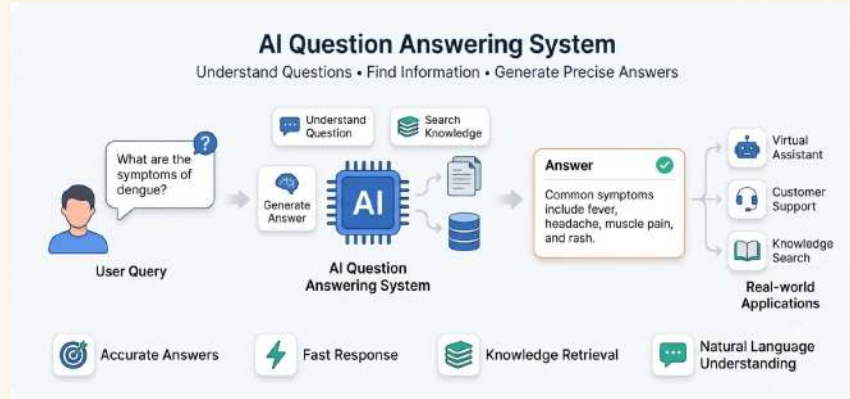
Generative AI

Computer Vision

Reinforcement Learning

MLOps

AI & Language Models



Language & Vision-Language Models

Vision-Language Model (VLM) Architecture Development

Question Answering System Development

Development of Tiny-LLMs for Specific Event Detection

Building and compressing the next generation of language and vision-language systems.

Imagery: AI-generated



Video & Model Efficiency

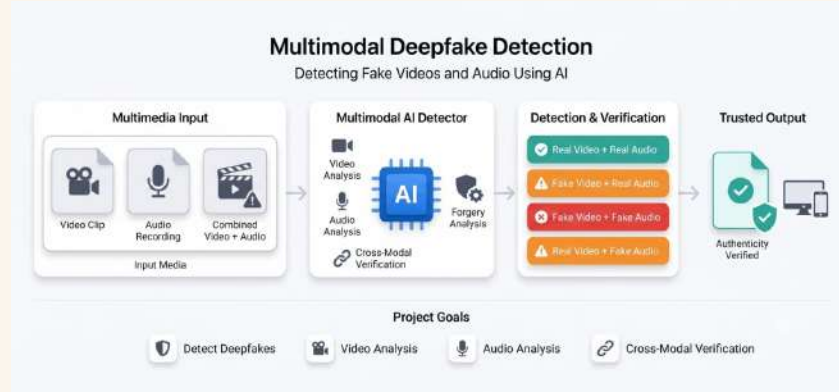
LLM Architecture for Temporal Video Data Analysis

Compression of Vision-Language Models

Vision & Learning

Perception and learning systems that hold up in the real world.

Imagery: AI-generated



Computer Vision

All Weather Object Detection

Multimodal Deepfake Detection

Image Segmentation for Snow Cover Estimation in the Himalayas



Machine Learning & RL

Adaptive Deep Learning Model Optimization via Reinforcement Learning

Rank-Balanced KNN Graph

Remaining Useful Life Prediction using Domain Adaptation



Autonomy & Security

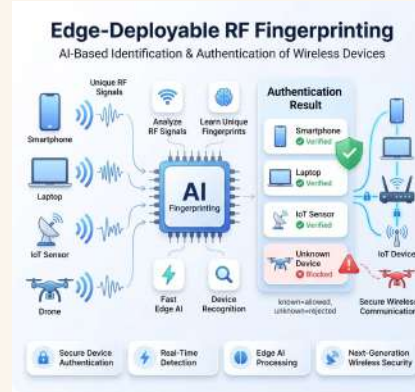


Robotics & Autonomous Systems

Path Planning and Optimization of Autonomous UAV under 3D Low Altitude Environment

Autonomy and security at the physical edge of computing.

Imagery: AI-generated



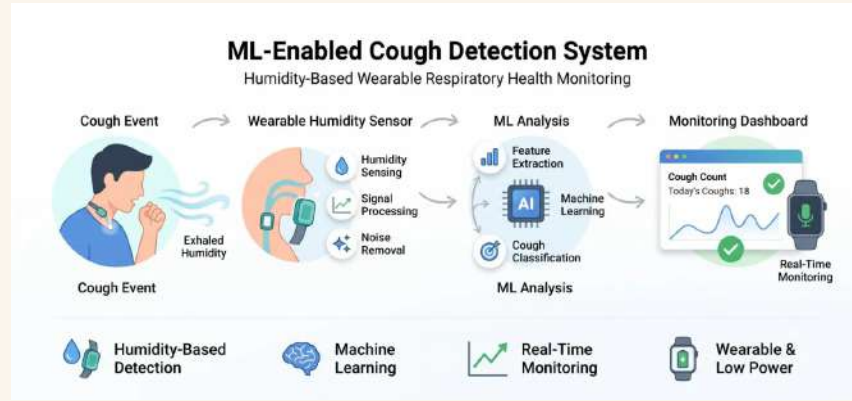
Wireless Communication & Security

Edge-Deployable RF Fingerprinting for Secure Wireless Systems

Deep Reinforcement Learning-based Physical Layer Security for Beyond Diagonal RIS



Health & Climate

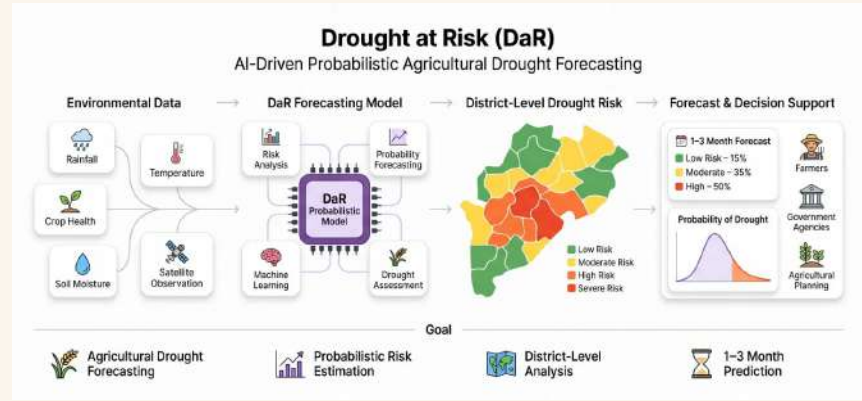


Healthcare AI

Machine Learning-Enabled Exhaled Humidity-Based Tussis Quantification System (ML-EHTQS)

Data science in service of public health and a resilient planet.

Imagery: AI-generated



Climate & Sustainability

Drought at Risk: A Probabilistic Modeling of Agricultural Drought

The Batch · 2025–27

The batch of 2025–27 consists of 17 students with diverse academic backgrounds and interests spanning machine learning, computer vision, NLP, and data engineering.

STUDENTS IN THE BATCH

17

GRADUATING

2027



M.TECH

Data Science

Student Achievements



Our students have earned awards and recognitions across India, excelling in prestigious competitions and hackathons organized by leading companies and research bodies.

EXAMS & PROGRAMMES

Outstanding GATE DA (incl. AIR 44) & GATE CS ranks

BARC & ISRO qualified

CAT high-percentilers

Google Summer of Code contributors

Amazon ML Summer School

Flipkart GRiD Lock Hackathon

Springer-indexed publications advancing AI/DS

RESEARCH & COMPETITIVE CODING

IEEE conference papers advancing AI/DS

ICPC regionalists

Meta Hacker Cup

Distinguished CodeChef / LeetCode ratings

Codeforces expert

Leading tech internships

Community mentorship

Industry Experience

Our students have interned at or previously worked with leading technology companies and research organizations, several as full-time engineers before returning to the programme.

Their work spans production machine learning, data platforms, embedded systems and scientific computing, so they arrive familiar with code review, deployment and delivery under a deadline.

Microsoft

Adobe

Motorola

Variable Energy Cyclotron Centre (VECC)

LTIMindtree

Tata Consultancy Services



Prior industry exposure means shorter ramp-up and students who can translate a business problem into a working model.

Notable Alumni

From Guwahati to the world's most respected labs, product teams and boardrooms, our graduates are shaping the future of data science. A few of the names carrying the programme forward:



**Himanshu
Shekhar**

Lead Data Scientist
Samsung



**Madhukar
Mukkamula**

Applied Scientist-2
Amazon



Priyanka Singh

Data Engineer
Visa



**Suraj
Kesharwani**

Software Development
Engineer II
SAP Labs



Pragati Patil

Graduate Data Scientist
**Commonwealth
Bank of Australia**



**Pushkar
Sharma**

Senior AI Engineer
Qualcomm



**Sahitya
Nachhola**

Software Engineer III
Walmart



Ankit Raj

AI Scientist-2
Info Edge

Past Recruiters

Driven by passion, powered by knowledge, our students step confidently into the world's leading companies, driving innovation in data science and AI.

























Your company could be here

iitg.ac.in/placements/auth

Hiring Process

The steps below are followed for campus hiring. For any further clarification, please feel free to contact our placement coordinators.

[FAQ FOR COMPANIES](#)

iitg.ac.in/ccd/faq_companies.html

01

Reach out

Contact our coordinators at placement@iitg.ac.in.

02

Register on the CCD portal

Register on the Placement Portal of the Centre for Career Development. A student coordinator (POC) is assigned to you.

03

Submit the JAF

Fill the online Job Application Form (JAF) for each profile you plan to recruit for.

04

Schedule PPT & test

Confirm dates for the Pre-Placement Talk (PPT) and test with the Placement Office.

05

Shortlist & interview

Review resumes, shortlist candidates, and conduct tests and interviews on campus.

06

Issue offers

Issue offer letters to selected students, stating compensation and joining date.

School Placement Team



Prof. Ratnajit Bhattacharjee

Head of the School

+91-361-258-2503 · ratnajit@iitg.ac.in



Neeraj Kumar Sharma

School Placement Coordinator

+91-361-258-3507 · neerajs@iitg.ac.in



Prasann Arora

M.Tech Data Science, Placement Representative

+91-90456-78805 · a.prasann@iitg.ac.in

Mehta Family School of Data Science & AI

Room 310, Third Floor, Core-2,
HSS Dept. Extension Building,
IIT Guwahati, Assam 781039
+91-361-258-3500
mfdsai_off@iitg.ac.in
iitg.ac.in/dsai

Centre for Career Development

1st Floor, Administrative Building,
IIT Guwahati, Assam 781039
+91-361-258-2175
placement@iitg.ac.in

Meet Our Team



Dr. John Jose

Head of CCD

hoccdd@iitg.ac.in · +91 90486 65842



Dr. Rishikesh D. Kulkarni

Faculty Coordinator (Placements)

fc1ccd@iitg.ac.in · +91 76368 92279



Dr. Rajkumar P. Thummer

Faculty Coordinator (Placements)

fc1ccd@iitg.ac.in · +91 70868 67025



Dr. Omkar S. Deshmukh

Faculty Coordinator (Internships)

fc2ccd@iitg.ac.in · +91 95458 61206



Dr. Biranchi Panda

Faculty Coordinator (Internships)

fc2ccd@iitg.ac.in · +91 96330 37489



Dr. Abraham Cyril Issac

Faculty Coordinator (Training & Corporate Relations)

fc3ccd@iitg.ac.in · +91 81369 27376



Ms. Akangshita Goswami

Career Development Officer

cdo@iitg.ac.in · +91 91014 67789



Mr. Vishesh Jindal

Personality Development Trainer

pdt@iitg.ac.in · +91 78978 95420

Lead Student Coordinators



Hitesh A. Ramrakhiyani

Industry Liaison
+91 90335 51761



Kumud Malid

Industry Liaison
+91 95882 12326



Chandrashekhar Rao

Industry Liaison
+91 72229 40112



Rishav Bharti

Industry Liaison
+91 85290 98807



Ravit Chatrath

Industry Liaison
+91 74540 63847



Aadit Siroya

Industry Liaison
+91 88798 22258



Saksham Bansal

Industry Liaison
+91 98786 92965



Shivam

Industry Liaison
+91 92794 39406

Lead Student Coordinators



Nena Thokchom
Logistics Support
+91 98634 79499



Krupakar Reddy Akiti
Logistics Support
+91 91105 72643



Abhishek Anand
Logistics Support
+91 93863 64468



Abhinav Soni
Logistics Support
+91 83193 16263



Avinash Gupta
Logistics Support
+91 98383 68756



Gaurav Anand
Logistics Support
+91 88650 11121



Rahul Raj
Training & Skilling
+91 88770 83918



Ishika Mandal
Training & Skilling
+91 62959 94207



Pratyush Kumar Jha
Training & Skilling
+91 75499 76158



Contact Us

We would be glad to host your team on campus. Reach the Centre for Career Development through any of the channels below.

Phone

+91-361-258-2175

+91-361-258-2171

Website

iitg.ac.in/ccd/

iitg.ac.in/placements/

Email

cdo@iitg.ac.in (Career Development Officer)

fc1ccd@iitg.ac.in (Faculty Coordinator, Placements)

placement@iitg.ac.in (Lead Student Coordinator)

hocccd@iitg.ac.in (Head of CCD)

ccd@iitg.ac.in (CCD Office)

Location

1st Floor, Administrative Building,
Office of the Centre for Career Development,
Indian Institute of Technology Guwahati,
Assam, India – 781039