



CENTRE FOR CAREER DEVELOPMENT
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

MEHTA FAMILY SCHOOL OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Batch of 2027 | Bachelor of Technology

B.TECH · M.TECH · B.SC (ONLINE) · PHD

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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.

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.



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 institute is growing steadily and the total number of students in eleven departments, nine academic centres and five schools in numerous undergraduate and postgraduate programmes is now around 8600. The institute has excellent infrastructure for the all round development of its students. The institute has full-fledged Technology Incubation Centre and Research Park to promote entrepreneurship activities.

IIT Guwahati continues to maintain its superior position in various International and National Rankings. IIT Guwahati secured the 8th position among the top engineering institutions in India in the NIRF 2025 Rankings, released by the Ministry of Education.

Additionally, IIT Guwahati has been ranked as the 11th best university in the country. IIT Guwahati has been ranked 2nd in the 'Swachhata Ranking' conducted by the Govt. of India. IIT Guwahati has been ranked as the topranked university in 2019 for IT developers by HackerRank in the Asia-Pacific region. IIT Guwahati gained 42 position globally in the 'Research Citations per Faculty' category and overall 344 rank in the QS World University Rankings 2025 released recently. Also, IIT Guwahati ranks 6th globally in Sustainable Development Goal 7 (Affordable and clean energy) of the Times Higher Education Impact Rankings 2023.

With Best Wishes,

Prof. Devendra Jalihal

Director, IIT Guwahati

The institute has a very good central library, which provides library and information services to support teaching, learning, and research activities by creating state-of-the-art facilities. It is housed on a four-storey building having a floor area of about 7500 sq. meter. Inhouse services of the library are fully computerised and wi-fi facility is provided within the library building for connecting to the internet and accessing the Institute's electronic resources. The sports facilities of the institute are of international standard. The students graduating from this institute are motivated, bright, and very eager to perform after they graduate.

IIT Guwahati has extensive facilities for cultural and creative activities too. For example, the Technical Board promotes technology, creativity and innovation. IIT Guwahati helps in shaping up bright minds with proper perspectives. IIT Guwahati hosts two supercomputing facilities PARAM-Kamrupa (838 TF) and PARAM-ISHAN (250TF) to carry out research activities in various scientific domains including forecasting of weather and climate, bioinformatics, computational chemistry, molecular dynamics, artificial intelligence (AI) and machine learning and especially data science.

Because of the excellent performance of the students of IIT Guwahati in all the fields of study and research, guided by the dynamic faculty members and with the full support of the non-teaching employees, IIT Guwahati could feature in the coveted list of young universities (under 50 years of age) of the world selected by the Times Higher Education (THE) magazine. IIT Guwahati is 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.

About the School

Founded in 2021, the School of Data Science and AI has, in four years, built a faculty of 20+ — including 12 core faculty with PhD, post-doctoral and industry R&D experience in DS&AI, and 10 associate faculty from EEE, Mathematics, CSE, Biosciences and Bioengineering, Chemical Engineering and Physics, adding strong interdisciplinary depth.

In its inaugural year the School launched a visionary BTech in DS&AI — one of the few undergraduate engineering degrees of its kind globally — and a PhD programme to anchor R&D. In 2023 it join hands to contribute to the interdisciplinary MTech in Data Science programme (with Depts. Mathematics and EEE) and, in October 2023, launched a fully online BSc (Hons.) in DS&AI with faculty-designed, flexible content, multi-entry/multi-exit options and campus immersion opportunities to reach diverse learners.

On the research front, the School pursues end-to-end data science: capture, modeling and prediction — from fundamentals to engineering solutions — with applications in mobile-edge communications, AI in healthcare, computer vision, spoken-language and audio processing, neuro-AI, ML reliability testing, time-series analysis, generative AI and more. Faculty and students regularly publish and engage in outreach, translating research findings to impactful outcomes.



Head of School's Message

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With great pride and excitement, I introduce to our batch of B. Tech students in Data Science and Artificial Intelligence (DS&AI) from the Mehta Family School of Data Science and Artificial Intelligence at IIT Guwahati, who will graduate in 2026.

Our curriculum, designed to meet the dynamic needs of the AI-driven future, blends rigorous theoretical foundations with practical, hands-on experience across diverse disciplines. The batch of B. Tech students scheduled to graduate in 2026, represent the vanguard of India's data science and AI-skilled workforce. They have been nurtured in an environment that encourages interdisciplinary thinking, innovative problem-solving, and ethical considerations in AI applications. Their training spans mathematics, computer science, electrical engineering, and extends into fields such as psychology, humanities, chemistry, and biology, preparing them for the multifaceted challenges of the AI landscape.

With Best Wishes,

Prof. Ratnajit Bhattacharjee

Head of School · Mehta Family School of Data Science and AI

The Mehta Family School's commitment to excellence is evident in our expanding academic offerings, including B. Tech, M. Tech, and Ph.D. programs, and our groundbreaking online B.Sc. (Hons.) in DS&AI. Our state-of-the-art facilities, currently under construction, further underscore our dedication to providing a world-class learning environment.

By choosing our graduates, you are not just recruiting employees; you are partnering with future leaders and innovators in the field of Data Science and AI. They are equipped to drive technological advancements, spearhead data-driven decision-making, and contribute significantly to your organization's growth in the AI era. We invite you to engage with our talented students and explore the myriad ways in which they can add value to your teams. We look forward to building lasting partnerships that will shape the future of AI and data science. Thank you for considering our graduates. We are confident that they will exceed your expectations and make substantial contributions to your organization's success.

Programmes Offered

Bachelor of Technology (B.Tech)

ADMISSION VIA JEE ADVANCED

The BTech in Data Science and AI (DS&AI), launched by IIT Guwahati in 2021, reflects the institute's commitment to advancing data science and AI. This four-year program, developed with academic advisors from the Mehta Family Foundation Care, USA, aims to nurture the next generation of DS&AI engineers with cutting-edge knowledge and skills to drive innovation across industries.

Admission is through the highly competitive JEE Advanced exam, with candidates first required to qualify JEE Main. Students are selected based on merit, ensuring a strong cohort with exceptional analytical and problem-solving abilities.

Bachelor of Science (Honors) — Online

ADMISSION VIA JEE MAINS & WRITTEN TEST

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Master of Technology (M.Tech)

ADMISSION VIA GATE

The M.Tech. in Data Science at IIT Guwahati is a two-year, full-time postgraduate program designed to develop advanced expertise in data science, machine learning, and AI. The program combines rigorous theoretical foundations with hands-on projects and research, preparing students to tackle complex, real-world data-driven challenges.

Admission is primarily through the highly competitive GATE examination, with selection based on merit and the institute's admission criteria. The rigorous selection process, coupled with advanced coursework, interdisciplinary training, and research exposure, equips graduates with the technical depth, analytical expertise, and problem-solving capabilities

Doctor of Philosophy (PhD)

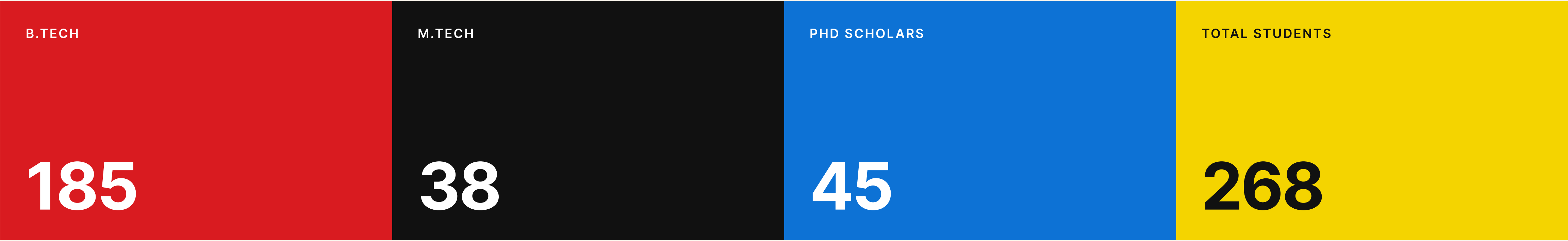
ADMISSION VIA WRITTEN TEST & INTERVIEW

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Student Strength

PROGRAMME	GRADUATING YEAR	STUDENTS
Bachelor of Technology	Batch of 2027	33
Master of Technology	Batch of 2027	17
Bachelor of Science (Honors)	Batch of 2027	~1200
Doctor of Philosophy		45
Total		



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12 Core Faculty

10 Associate Faculty

2 Distinguished Faculty

Research Areas

Our research brings together intelligent systems, advanced data analytics, and interdisciplinary approaches to address complex real-world challenges. We focus on developing reliable, responsible, and scalable AI technologies that combine theoretical foundations with practical applications across diverse domains.

Thrust areas

AI-Driven Vision & Multimedia Intelligence

This theme unites cutting-edge advances in computer vision, multimodal AI, and deep learning for visual and multimedia understanding. Research includes image and video enhancement, object detection, segmentation, captioning, and storytelling, as well as deepfake detection and super-resolution across challenging weather conditions. The group emphasizes building robust, scalable models that perform reliably in real-world environments.

Our work also explores the integration of multiple sensory and multimedia inputs to improve machine perception and reasoning. Applications span automated surveillance, intelligent transportation, content analysis, and human-centered AI, with a strong focus on developing systems that can understand and respond to complex visual information.

Reinforcement Learning & Optimization in Networks

This area harnesses probabilistic control, reinforcement learning, and stochastic optimization for resource allocation and dynamic decision-making in complex systems. Core pursuits include Markov decision processes, multi-armed bandits, and optimal control applied particularly in wireless networks, IoT, and mobile edge computing contexts. The goal is to craft intelligent adaptive systems capable of efficient, autonomous decision-making under uncertainty.

Research also explores distributed learning, network optimization, and adaptive resource management in large-scale connected environments. These methods aim to improve system efficiency, scalability, and resilience while enabling intelligent agents to make effective decisions in dynamic and resource-constrained settings.

Signal Processing & Neuro-Inspired AI

Focusing on speech, audio, biosignal, and neuro-AI, this area explores sophisticated signal representations and biologically inspired learning systems. Projects involve speech and EEG modeling, multimodal representation learning, computational neuroscience, and neuromorphic systems that mimic brain-like processing. By bridging human perception and machine intelligence, this theme advances AI that learns and adapts in ways closer to natural systems.

Research also investigates how temporal, spatial, and physiological signals can be combined to create more intelligent and context-aware systems. These approaches have applications in assistive technologies, human-computer interaction, healthcare, affective computing, and next-generation intelligent devices.

Finance, Risk Modelling & Sustainable Analytics

This theme applies data science to finance, covering portfolio optimization, derivative pricing, financial risk, and sustainable investment strategies. The center of gravity lies in integrating statistical and computational methods to model market dynamics, quantify risk, and support decision-making in sustainable finance. This strengthens the paradigm of responsible financial systems.

The research also considers the growing role of data-driven approaches in ESG analysis, climate-related financial risk, and responsible investment. By combining mathematical modeling, machine learning, and financial analytics, the work seeks to develop transparent and robust tools for managing uncertainty and supporting long-term economic sustainability.

Statistical Modeling & Predictive Reliability

Dedicated to rigorous statistical inference, the modeling of complex systems, and real-world reliability analysis, this area encompasses parameter estimation, robust modeling techniques, Bayesian methods, and reliability under stress. Applications range from manufacturing reliability and life-testing to anomaly detection in dynamic environments. These methodologies are critical for designing systems that withstand uncertainty and offer predictive insights.

The research further addresses uncertainty quantification, probabilistic forecasting, and dependable decision-making under changing conditions. By combining statistical theory with computational methods, the work supports the development of trustworthy predictive models for engineering, technology, and other data-intensive applications.

Equity-Aware AI & AI for Social Good

Here, the department tackles societal challenges through AI for equity and accessible healthcare. Research spans bias reduction using transfer learning for data-disadvantaged groups, developing socially unbiased AI models, and creating AI-based disease screening systems using body signals and respiratory audio. This theme exemplifies the school's commitment to inclusive AI and socially impactful innovation.

Beyond healthcare, the research explores fairness, accessibility, and responsible deployment of intelligent technologies across diverse communities. The goal is to ensure that AI systems are not only accurate and efficient, but also transparent, inclusive, and capable of delivering meaningful benefits to populations that are often underserved by conventional technologies.

Curriculum Highlights

Core courses

Introduction to Computing (with Lab)
Introduction to Data Science
Statistical Foundations for Data Science
Discrete Mathematics
Algorithms and Data Structures (with Lab)
Signals, Systems & Networks
Introduction to Optimisation
Introduction to Artificial Intelligence
Python Programming (Lab)
Database Management Systems (with Lab)
Applied Probability & Random Processes
Big Data Analytics: Tools & Techniques
Applied Time Series Analysis

Multi-modal Data Processing & Learning - I
Multi-modal Data Processing & Learning - II
Computer Systems
Machine Learning (with Lab)
Data Mining
Deep Learning
Advanced Machine Learning (Lab)
Internet of Things
Data Visualisation
Privacy and Information Security
Data Analytics for Finance
FATE in AI Models
Bioinformatics (with Lab)

Elective courses

Hardware Aware Deep Learning
Introduction to Reinforcement Learning
NLP for Computer Vision

Capstone Project

Bachelor Term Project (Final Year Project)
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Achievements

Student distinctions

- Won **2 Silver Medals and 1 Bronze Medal** at the **Inter IIT Tech Meet 14.0 and 13.0**, one of the premier inter-institute technical competitions, competing against top teams from IITs across India.
- Selected for the **UC Berkeley Global Computing & Data Science Program**, with a semester abroad at the College of Computing, Data Science and Society.
- Reached both the **Finals and Semi-Finals** of the **Goldman Sachs India Hackathon – Quant Track**, demonstrating strong analytical, quantitative, and problem-solving capabilities.
- Secured **1st Place** in the **JPMorgan Chase Code for Good** competition, demonstrating strong problem-solving, teamwork, and technical skills in a competitive environment.
- Achieved **2nd Runner-Up** in the **NE Sustain × UDGAM Hackathon**, showcasing innovative thinking and the ability to develop impactful technology-driven solutions.
- Named a **Finalist** in the **Texas Instruments WiSE (Women in Software Engineering) Challenge**, recognizing excellence in technical innovation and software engineering.
- Ranked among the **Top 10** teams in the **Google AI Hackathon**, showcasing expertise in applying artificial intelligence to solve real-world problem statements.
- Ranked among the **Top 30** teams in the **Strategy Storm International Business Case Competition**, competing against more than 2,000 teams and demonstrating strong strategic and analytical thinking.
- Selected for the **D. E. Shaw Mentorship Program** through a competitive selection process, reflecting strong technical aptitude and potential in the field of technology and finance.
- Advanced to **Round 2** of the **Integral Cup**, competing among top undergraduate mathematical problem-solvers at national level.
- Advanced to **Round 2** of **IIWCPC**, showcasing strong competitive programming and algorithmic problem-solving skills.

Student Activities & Clubs

Beyond academics, IIT Guwahati students thrive in a vibrant culture of technology, leadership, sports and creativity. Through clubs, festivals and Inter IIT competitions, students consistently transform their interests into impactful projects, memorable experiences and podium-winning performances.

Cultural Excellence

Our students have maintained a strong presence at the Inter IIT Cultural Meet, securing **1 Gold, 1 Silver and 2 Bronze Medals**, along with an overall 4th position. These achievements across filmmaking, theatre, dance and other cultural disciplines highlight the diverse creative talent and competitive spirit within the batch.

Leadership & Engagement

Our students have taken on leadership roles across major student bodies and campus platforms, including the Cultural Board, Students' Welfare Board, Tensor, Coding Club, Alcheringa and SWC, contributing to technology, culture and student engagement.

Competitive Achievements

Beyond technical competitions, our students have demonstrated strong performance in business, strategy and interdisciplinary competitions, including a Top 30 finish in Strategy Storm among 2,000+ teams.

Sports & Fitness

Our students have also pursued excellence beyond academics, with achievements in sports and fitness reflecting the batch's commitment to discipline, teamwork and all-round development.



BTech Term Projects

Every BTech student undertakes a year-long thesis capstone project, designed to bridge classroom learning with real-world problem solving.

Below is a listing of the BTech projects being pursued by the 2023-27 batch, scheduled to graduate in 2027.

Signal Processing, NLP & Time Series

Topics in Generative AI and NLP — Building a NLP model like IndicBERT that can communicate in any Indian language.

AI application in radar signal processing — Leveraging modern AI techniques to have better radar signal processing.

LLMs for Time Series Prediction — Predicting Time Series data using different methodologies on LLMs.

Topics in natural language processing — Developing natural language processing techniques to understand and analyze human language.

Large Language Models for Literature — Locally hosted LLM Viva Examiner Agent (RAG + fine-tuning with viva transcripts).

Deep Neural Audio Watermarking for Seamless Contextual Data Transfer — Deep learning system hiding robust inaudible data inside everyday audio.

Defense, Security & Cryptography

AI-application in drone detection and IFF (Identification of Friend or Foe) — Detecting ariel object from radar signal and classifying them as drone , bird etc , and identifying friend and foe among the drones.

Federated learning on IOT systems — Federated learning, Mutual Information, Resource constrained devices, IOT, Central Server, Byzantine attacks, Distributed Framework, MQTT, TCP, Geometric Median.

Zero Touch Networks - IDS — ML based intrusion detection system.

Transformers in Mouse Dynamics — Authentication to check whether mouse usage is genuine or forgery.

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Computer Vision

Vision Language Models for Image Segmentation — Working on efficient vision-language models with semi-supervised learning.

Medical image analysis — Medical image analysis using new methods like using LLM's.

All Weather Video Object Detection — Object detection that works reliably across all weather conditions.

Under Water Image Enhancing — To develop an image enhancement system that improves the visual quality of underwater images affected by poor illumination, color distortion, haze, and loss of contrast.

Degraded Face Perception — See how models perceive a degraded face and how different it is from how brain perceive degraded face.

Illusinary Images: Men vs AI — Comparing AI and human visual comprehension of optical illusions through automated caption generation.

ML, AI & Distributed Systems

Prompt Engineering of LLMs to Solve Quantitative Problems — Using prompt design to improve LLM's performance on quantitative problems.

Remaining useful life prediction based on domain adaption — AI-driven predictive maintenance using transfer learning for degradation detection and RUL prediction.

Multi-Agent Reinforcement Learning — Exploring multi-agent reinforcement learning for queueing control in settings with unknown system rates.

Physics informed Machine Learning — Embedding physical laws and differential equations into neural network architectures.

Improving recommendation in E-commerce platforms through multimodal data fusion and reasoning through LLM — Learning transferable behavioral representations rather than transferring user embeddings for cross-domain recommendation.

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Multimodal & Interactive AI

Multimodal Dance and Music Intelligence using Motion Capture — Developing multimodal intelligence to understand, analyze, and generate dance through motion capture and music.

Multimodal Deepfake Detection — Designing a lightweight deepfake detector which uses multiple modalities, mainly in a social media setting.

Climate, Environment & Healthcare

Climate Financial risk modelling — Quantifying climate hazards and policy transitions on financial portfolio risk.

Dataset integration and mapping of differential gene expression to develop diagnostic kits for detecting cancer — Studying how gene perturbations propagate through gene-protein networks and influence downstream effects.

Finance & Quantitative Methods

Quantitative investing with Downside Risk — Investment approach that uses mathematical models, statistics and data to make portfolio decisions rather than relying mainly on intuition.

Summer Internship Projects

Internships provide our students with valuable opportunities to apply classroom learning in professional settings. By working on diverse projects with industry and research partners, they gain hands-on experience, practical insights, and skills that prepare them for future careers.

Below is a listing of a few of the internship projects undertaken by the 2023-27 batch, scheduled to graduate in 2027.

Software Engineering

Query Optimization

Regression Analysis Framework

Knowledge Graph Path-Finding API

Banking Validation Fullstack Project

Azure Release Dashboard

On-Device AI & IPC Architecture

Generative AI Chrome Extension

Security Signals Aggregator

Google Workspace Notifications

AI Model Logging & Analytics

Quantitative Finance

Financial Instrument Pricing

Counterpart Credit Risk Quantitative Modeling

ML & Generative Systems

Adverse Weather Object Detection

Enterprise Multi-Agent Orchestration

Audio Source Separation

User Dissatisfaction Search System

SYMBHA Fraud Detection Pipeline

SAM Model Upgrade

Skillspaces Workflow Automation

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Software Engineering

Query Optimization — Developed metadata-driven query optimization enhancements in production C++, improving cost estimation through boundary-value extraction, overlap statistics, and caching.

Regression Analysis Framework — Built a fault-tolerant, fully automated MySQL regression analysis framework using CI data and metadata.

Knowledge Graph Path-Finding API — Developed a scalable Path-Finding API for connecting entities in Knowledge Graphs, researching and implementing algorithms to achieve an 8-second latency.

Banking Validation Fullstack Project — Developed a full-stack project to build an AI-assisted validation tool ensuring banking transactions are in good order before submission.

Azure Release Dashboard — Created a dashboard to track releases in Azure, integrating it with AI for faster responses.

On-Device AI & IPC Architecture — Migrated LLM agents to on-device AI, optimized semantic search, developed Tizen C++ applications, and implemented secure IPC architecture.

Generative AI Chrome Extension — Developed a Chrome extension to bring generative AI capabilities and creative workshops to every desktop.

Security Signals Aggregator — Created an intelligent aggregator for multiple different security signals across the organization.

Google Workspace Notifications — Migrated the internal notifications infrastructure of Google Workspace to a centralized and unified system, improving handling and reliability.

AI Model Logging & Analytics — Created a data product with 7 datasets by storing AI model logs, using LLMs to analyze them, improve AI performance, perform analytics, and build an evaluation set.

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Quantitative Finance

Financial Instrument Pricing — Developed and evaluated machine learning models to optimize the pricing of financial instruments.

Counterpart Credit Risk Quantitative Modeling — Calibrated Shortfall with a regime switching transition probability-based framework.

ML & Generative Systems

Adverse Weather Object Detection — Developed an architecture for robust object detection in adverse weather conditions.

Enterprise Multi-Agent Orchestration — Designed a scalable and reliable enterprise multi-agent orchestration framework.

Audio Source Separation — Isolated individual sound sources—like vocals, instruments, or background noise—from mixed audio tracks using deep learning models.

User Dissatisfaction Search System — Built a search system to find relevant evaluation test cases for given user dissatisfaction instances.

SYMBHA Fraud Detection Pipeline — Enhanced the SYMBHA (SYMBOLic Healing Agent) pipeline to generate evolving fraud rules on the fly, aiding Mastercard's decision intelligence layer.

SAM Model Upgrade — Replaced the deployed SAM 2.1 model with the latest SAM 3 model for image segmentation in Microsoft products.

Skillsspaces Workflow Automation — Built a platform called Skillspaces enabling easy collaboration and automated workflows using skillflows.

Past Recruiters



Past Recruiters



Meet Our Team



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Understanding
Building
Sharing

Intelligence

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