Rajashik Datta

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Education

Institute of Engineering & Management, Kolkata, India	**August 2022 – July 2026**
B.Tech in Computer Science & Engineering (Artificial Intelligence)	*CGPA: 9.19 / 10*

Ranked 6th in the top 10% of class in Year 3 (AY 2024–25).

D.A.V. Public School, Siliguri, India	**April 2020 – March 2022**
Higher Secondary School	*CBSE: 75.4 / 100*

Nirmala Convent School, Jalpaiguri, India	**April 2008 – March 2020**
Primary School, High School	*ICSE: 90 / 100*

Experience

University of Nebraska-Lincoln, USA	**June 2025 – Present**
Research Intern	*Remote (USA)*

Supervisor: *Dr. Sruti Das Choudhury* (*Offer Letter*)
Research on explainable AI and data visualization for precision agriculture. *(Accepted)*
Working on phenotype-genotype mapping and spatio-temporal agricultural data analysis. *(Working paper)*
Researching deep learning-based hyperspectral image analysis for plant phenotyping. *(Working paper)*
Featured in the university's news story for research contributions: snr.unl.edu

University of Calcutta	**January 2025 – Present**
Research Scholar	*Kolkata, India*

Supervisors: *Dr. Arup Kumar Chattopadhyay*, *Prof. Amit Kumar Das*, *Prof. Amlan Chakrabarti*
Proposed a fuzzy-hypergraph-based feature selection algorithm for high-dimensional data. *(Submitted)*
Developing a fuzzy intuitionistic non-uniform hypergraph framework for feature selection. *(Working paper)*

Generative AI Centre of Excellence, IEM	**November 2024 – Present**
Student Research Lead at GenAI CoE	*Kolkata, India*

Coordinated research activities and mentored junior students in AI research initiation. Launched *ReelBook*, an AI fundamentals outreach initiative.

IEM Research Foundation	**August 2024 – March 2025**
Project Intern at bair.ai (Certificate)	*Kolkata, India*

Built an end-to-end system of a Cluster-based Cryptocurrency Price-prediction Engine, MemeMetric, using deep learning.
Applied NLP-based sentiment analysis on social media data to enhance prediction robustness.

Innovation & Entrepreneurship Development Cell (CSE), IEM	**March 2024 – August 2024**
Research Assistant (Certificate)	*Kolkata, India*

Co-authored a research paper accepted at IEM-HEALS 2024 on pharmaceutical stock analysis.
Developed a real-time stock trading simulation platform, TraderBot, for academic experimentation.

National University of Singapore (NUS), Singapore	**July 2023 (1 week)**
Study Abroad Program (Certificate)	*Singapore*

Studied fundamentals of "Artificial Intelligence, Internet of Things, Machine Learning & Data Analytics", lectured by *Dr. Peter Leong*, *Dr. Eric Cambria*, *Dr. Matthew Chua*, *Dr. Yiliang Zhao*, *Dr. Gábor Benedek*, *Dr. Tan Kian Hua*, *Yong Heng Michael Tan*, *Marton Szel*, *Gillian Cheng*.

Publications

Published/Accepted

1. Sanjan Baitalik, **Rajashik Datta**, Utsho Banerjee, Rajarshi Karmakar, Vincent Stoerger, Himadri Nath Saha, Sruti Das Choudhury, "*RephroPheno and ReproPhenoNet: A Large-Scale Multimodal Benchmark Dataset and Deep Learning Framework for Reproductive-Stage Plant Phenotyping*", AAAI Workshop 2026, December 2025. *(Published)*

2. **Rajashik Datta**, Sanjan Baitalik, Amit Kumar Das, Sruti Das Choudhury, "PlantPhenoLM: Phenotype-Genotype Mapping Inference with Multi-Turn LLM Reasoning and Selective Prediction", AAAI Bridge 2026, December 2025.

3. Sanjan Baitalik, **Rajashik Datta**, Amit Kumar Das, Sruti Das Choudhury, "Conversation as Belief Revision: GreedySAT Revision for Global Logical Consistency in Multi-Turn LLM Dialogues", AAAI Bridge 2026, December 2025.

4. **Rajashik Datta**, Sanjan Baitalik, Sruti Das Choudhury, Arup Kumar Chattopadhyay, Amit Kumar Das, "Fuzzy Hypergraph Feature Association Map for High-Dimensional Feature Selection in Agriculture and Remote Sensing", International Journal of Fuzzy Systems (Impact Factor: 3.6), January 2026.

5. Sruti Das Choudhury, **Rajashik Datta**, Sanjan Baitalik, "Enhancing Interpretability Through Clustering, Explainable AI, and Narrative Visualization: Applications in Precision Agriculture and Healthcare Patient Segmentation", Information (Impact Factor: 2.9), December 2025.

6. Sanjan Baitalik, **Rajashik Datta**, Sanket Ghosh, Darothi Sarkar, Ayan Chaudhuri, "Machine Learning-Driven Insights For Stock Market Analysis And Trading", International Conference on Interdisciplinary Research in Technology and Management (IRTM 2024).

7. Sanket Ghosh, Sanjan Baitalik, **Rajashik Datta**, Darothi Sarkar, "The COVID-19 Shock: An Analysis Of Impacts And Responses Of Indian Stock Market", International Conference on Interdisciplinary Research in Technology and Management (IRTM 2024).

8. **Rajashik Datta**, Sanjan Baitalik, Sanket Ghosh, Saugata Ghosh, Swarnendu Ghosh, "Is Indian Financial Market Ready for Pandemics?". In International Conference on Advancing Science and Technologies in Health Science (IEM-HEALS 2024) *Book of Abstracts*.

Submitted

1. Sanjan Baitalik, **Rajashik Datta**, Darothi Sarkar, Ayan Chaudhuri, MiQ-MCP: Valid and Conditionally Robust Uncertainty Quantification for High-Frequency Financial Time Series via Mondrian Conformalized Quantile Regression (GitHub: MiQ-MCP), Computational Economics (Impact Factor: 2.2), December 2025.

In Progress

1. Sanjan Baitaik, **Rajashik Datta**, Arup Kumar Chattopadhyay, Amit Kumar Das, Amlan Chakraborty, "Greedy Optimization with Provable Guarantees for Non-Uniform Intuitionistic Hypergraph-Based Feature Selection". Intended for submission to Pattern Recognition (Impact Factor: 7.6), February 2026.

2. **Rajashik Datta**, Sanjan Baitalik, Sruti Das Choudhury, Amit Kumar Das, "Visual Analytics of Plant Phenotype–Genotype Dynamics via Temporal Embeddings". Intended for submission to IEEE Transactions on Visualization and Computer Graphics (Impact Factor: 6.5), March 2026.

3. Sanjan Baitalik, **Rajashik Datta**, Sruti Das Choudhury, "HyperProbe Insight: An Interactive Tool for Exploration of Hyperspectral Image Sequences". Intended for submission to IEEE Transactions on Visualization and Computer Graphics (Impact Factor: 6.5), March 2026.

Technical Skills

Programming Languages: Python, C, C++, Java, MATLAB, LaTex
Machine Learning & AI Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, SHAP, LIME, Transformers
Data Analysis Tools: Pandas, NumPy, SciPy
Database Management: MySQL, PostgreSQL, MongoDB
Cloud & Big Data: AWS (S3, EC2, SageMaker), Google Cloud (BigQuery, Compute Engine)
Visualization Tools: Matplotlib, Seaborn, Plotly, Tableau, MATLAB App Designer, TensorBoard

Projects

Recruvia – Agentic AI System for HR Automation using LLMs and vector databases. (*GitHub*) March 2025
Pizzamania – Agile-based online ordering system with real-time tracking. (*GitHub*) November 2024
Fitness Emporium – E-commerce platform design project. (*Documentation*) February 2024

Volunteering

GenSpark 1.0 Ideathon – Organizer; coordinated 50+ teams and shortlisted funded ideas. June - August 2025
IEM-ICDC 2025 – Conference volunteer (coordination & support.) April 2025
Department of CSE, IEM – Assisted NBA accreditation documentation. March 2024