

Rajashik Datta

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Education

Institute of Engineering & Management, Kolkata <i>B.Tech in Computer Science & Engineering (Artificial Intelligence)</i>	2022 – 2026 <i>CGPA: 9.68 / 10</i>
D.A.V. Public School, Siliguri <i>Higher Secondary School</i>	April 2020 – March 2022 <i>CBSE: 75.4 / 100</i>
Nirmala Convent School, Jalpaiguri <i>Primary School, High School</i>	April 2008 – March 2020 <i>ICSE: 90 / 100</i>

Relevant Coursework

- Artificial Intelligence
- Database Management
- Cloud Computing
- Theory of Computations
- Computer Networks
- Operating Systems
- Data Structures
- NLP

Experience

University of Nebraska, Lincoln, USA <i>Research Intern</i>	June 2025 – Present <i>Remote (USA)</i>
<ul style="list-style-type: none">• Contributing to active research remotely, on “Hyperspectral image analysis for plant phenotyping based on deep neural networks.”	
GenAI CoE, IEM <i>Undergraduate Student Research Lead</i>	November 2024 – Present <i>Kolkata, India</i>
<ul style="list-style-type: none">• Working as Research Lead in GenAI Centre of Excellence, Institute of Engineering & Management, Kolkata.• Responsible for guiding and managing student research work under academic prerequisites or external interests.	
IEM Consultancy Services <i>Project Intern at bair.ai</i>	August 2024 – March 2025 <i>Kolkata, India</i>
<ul style="list-style-type: none">• Developed MemeMetric: Predictive Modeling of Memecoin Success	
Innovation & Entrepreneurship Development Cell (CSE) <i>Undergraduate Research Assistant</i>	March 2024 – August 2024 <i>Kolkata, India</i>
<ul style="list-style-type: none">• Authored a research paper accepted at IEM-HEALS 2024 - Analyzed Jul 2019–Dec 2022 closing prices of 20 pharma stocks using multivariate regression, volatility metrics, and event-study methods.• Developed TraderBot : End-to-End Paper Trading Platform	
Study Abroad Program at National University of Singapore (NUS) <i>Undergraduate Study Abroad Program</i>	July 2023 (1 week) <i>Singapore</i>
<ul style="list-style-type: none">• Studied fundamentals of “Artificial Intelligence, Internet of Things, Machine Learning & Data Analytics”, lectured by faculties of National University of Singapore.	

Projects

Recruvia : Agentic AI System for HR Automation	March 2025
<ul style="list-style-type: none">• Created an AI-powered recruitment automation system with autonomous agents for CV screening, candidate search, interview scheduling, and reporting.• Utilized ChromaDB for efficient data retrieval and integrated Mistral LLM for generating real-time insights and context-aware responses, streamlining the hiring process for HR professionals.	
MemeMetric : Predictive Modeling of Memecoin Success	December 2024
<ul style="list-style-type: none">• Spearheaded end-to-end development of a Cluster-based Cryptocurrency Price-prediction Engine, architecting the algorithm, data pipeline, and automated report-generation framework to deliver actionable market insights.• Designed and implemented NLP-driven social-media sentiment analytics, aggregating real-time data from Twitter, Telegram, and Reddit to quantify market sentiment and bolster model robustness, reducing forecast error and volatility.	
Pizzamania : Agile Management Using Jira	November 2024
<ul style="list-style-type: none">• Developed an online pizza ordering system with customization options, real-time order tracking, and secure payment processing.• Implemented agile methodology to build a robust platform, continuously adding features such as multi-payment options, dynamic pizza customization, and seamless order updates for an enhanced user experience.	

TraderBot : End-to-End Paper Trading Platform

June 2024

- Developed a real-time stock trading simulation platform using Flask for backend trade logic and MongoDB for data persistence.
- Integrated Yahoo Finance API to fetch live market data, allowing users to simulate trading strategies, test portfolio management techniques, and analyze stock movements without risking actual capital.

Fitness Emporium

February 2024

- Software Engineering Project Prototype - Fitness Emporium is an online e-commerce website which sells fitness products, gymnasium equipments, yoga equipments, etc.

MATLAB Project : Number Guessing Game

November 2023

- Created an interactive number guessing game in MATLAB using App Designer.
- The game allows users to compete against a computer, providing real-time feedback on whether the guess is higher, lower, or correct. Tracks player scores, and features a dynamic interface that adapts as users continue to play, offering an engaging experience.

Technical Skills

Programming Languages: Python, C, C++ Java, MATLAB

Database Management: Oracle, MySQL

Tools and IDE: Visual Studio Code, Jupyter Notebook, Google Colaboratory, Jira, Overleaf

GenAI Platforms: DALL-E, AI Studio, OpenAI APIs, Stable Diffusion

Cloud Platforms: AWS, Google Cloud

Soft Skills: Problem-solving, Critical thinking, Teamwork, Leadership

Leadership / Extracurricular

IEM-ICDC 2025

April 2025

Volunteering

- Volunteering for IEM-ICDC 2025, assisting with event coordination and support for the conference.

GenSpark 1.0 2025

June - August 2025

Organizer, Ideathon

- Organized the first Ideathon under GenAI CoE IEM, promoting innovation and collaboration among participants.

Department of CSE, IEM

March 2024

Volunteering

- Contributed to the NBA(National Board of Accreditation) accreditation process through volunteering efforts, supporting the team in documentation and assessment tasks.

Publications

1. **Rajashik Datta**, Sanjan Baitalik, Sanket Ghosh, Saugata Ghosh, Dr. Swarnendu Ghosh, “Is Indian Financial Market Ready for Pandemics?”. In International Conference on Advancing Science and Technologies in Health Science (IEM-HEALS 2024).
2. Sanjan Baitalik, **Rajashik Datta**, Sanket Ghosh, Dr. Darothi Sarkar, Dr. Ayan Chaudhuri, “Machine Learning-Driven Insights For Stock Market Analysis And Trading”. In International Conference on Interdisciplinary Research in Technology and Management (IRTM 2024).
3. Sanket Ghosh, Sanjan Baitalik, **Rajashik Datta**, Dr. Darothi Sarkar, “The COVID-19 Shock: An Analysis Of Impacts And Responses Of Indian Stock Market”. In International Conference on Interdisciplinary Research in Technology and Management (IRTM 2024).