

# Sanjan Baitalik

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## Education

<b>Institute of Engineering &amp; Management, Kolkata</b> <i>B.Tech in Computer Science &amp; Engineering</i>	<b>2022 – 2026</b> <i>CGPA: 9.3/10</i>
<b>Nava Nalanda High School, Kolkata</b> <i>Higher Secondary School</i>	<b>April 2020 – March 2022</b> <i>WBCHSE: 90.1 / 100</i>
<b>Nava Nalanda High School, Kolkata</b> <i>Primary School, High School</i>	<b>April 2008 – March 2020</b> <i>WBBSE: 93.6 / 100</i>

## Relevant Coursework

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

## Experience

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

## Projects

<b>Hirely : Agentic AI System for HR Automation</b>	<b>March 2025</b>
<ul style="list-style-type: none"><li>• Created an AI-powered recruitment automation system with autonomous agents for CV screening, candidate search, interview scheduling, and reporting.</li><li>• 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.</li></ul>	
<b>MemeMetric : Predictive Modeling of Memecoin Success</b>	<b>December 2024</b>
<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li></ul>	
<b>Pizzamania : Agile Management Using Jira</b>	<b>November 2024</b>
<ul style="list-style-type: none"><li>• Developed an online pizza ordering system with customization options, real-time order tracking, and secure payment processing.</li><li>• 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.</li></ul>	

## 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.

## HealthHub

February 2024

- Designed and developed an e-commerce platform focused on health-related products and services, including wellness supplements, medical equipment, and personal care items.
- The platform features product management, shopping cart functionality, secure payment options, and a seamless user experience, aimed at improving health and wellness access for consumers.

## 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

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

**Database Management:** Oracle, MySQL

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

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

**Cloud Platforms:** AWS, Google Cloud

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

## Leadership / Extracurricular

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### 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

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1. **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).
2. 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).
3. 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).