SANJAN BAITALIK

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EDUCATION

Institute of Engineering & Management 📍 **Kolkata**   *April 2022 - Present*
Bachelor of Technology in Computer Science and Engineering   CGPA : 9.3 / 10

Nava Nalanda High School 📍 **Kolkata**   *April 2020 - March 2022*
Higher Secondary School   WBCHSE : 90.1 / 100

Nava Nalanda High School 📍 **Kolkata**   *April 2008 - March 2020*
Primary School, High School   WBBSE : 93.6 / 100

SKILLS

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, OpenAI APIs, Stable Diffusion
Cloud Platforms	AWS, Google Cloud
Soft Skills	Problem-solving, Critical thinking, Teamwork, Leadership

RESEARCH AND INDUSTRY EXPERIENCE

GenAI CoE, IEM   *November 2024 - Present*
Undergraduate Student Research Lead

- ❖ Working as Research Lead in GenAI Centre of Excellence, Institute of Engineering & Management, Kolkata.
- ❖ Responsible for guiding and managing student research work under academic prerequisite or external interests.

IEM Consultancy Services   *August 2024 - March 2025*
*Project Intern at **bair.ai***

- ❖ 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.

Innovation & Entrepreneurship Development Cell (CSE)   *March 2024 - August 2024*
Undergraduate Research Assistant

- ❖ Co-authored in 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.

❖ Full-stack Stock Trading Simulator - Developed a React/Node.js/Express/MongoDB platform with real-time WebSocket feeds and a custom order-matching engine.

Study Abroad Program at National University of Singapore (NUS)   *July 2023 (1 week)*
Undergraduate Study Abroad Program
❖ Studied fundamentals of "Artificial Intelligence, Internet of Things, Machine Learning & Data Analytics", lectured by faculties of National University of Singapore.

PEER-REVIEWED CONFERENCE PUBLICATIONS

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)

RESEARCH INTERESTS

❖ Artificial Intelligence and Machine Learning
❖ Stock Market Prediction and Analysis
❖ Generative AI in Creative Applications
❖ Cognitive Medical Intelligence

CERTIFICATES AND INTERNSHIPS

❖ AICTE AI-ML Virtual Internship supported by Google for Developers   *July 2024 - September 2024*
❖ AICTE Android Developer Virtual Internship supported by Google for Developers   *April 2024 - June 2024*
❖ AWS Academy Graduate - AWS Academy Machine Learning Foundations   *November 2023*
❖ AWS Academy Graduate - AWS Academy Cloud Foundations   *September 2023*
❖ AICTE AI-ML Virtual Internship supported by AWS   *May 2023 - July 2023*
❖ Google Developer Student Clubs - Gen AI Study Jam   *May 2023*