

# Souvik Maity

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## PROFILE

Passionate and skilled in **Artificial Intelligence and Machine Learning**, and have solid experience in **full-stack development**. Strong foundation in **data structures and algorithms**, combined with critical problem-solving abilities, I am eager to leverage my technical expertise in innovative projects.

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering**

*Institute of Engineering and Management*

10/2022 – 05/2026

Kolkata, India

**Baradongal Ramanath Institution**

Higher Secondary - 90%

07/2020 – 03/2022

Kolkata, India

## PROJECTS

### AI-Powered Risk Management System

- Built an AI-driven risk management system using **Python**, **Streamlit**, **LangChain**, and **Gemini Flash 2.0**.
- Integrated dynamic, static, risk scoring, and reporting agents via **CrewAI** and **ChromaDB**.
- Enabled real-time risk detection using financial trends, internal metrics, and project data.
- Delivered automated risk reports, mitigation strategies, and alert notifications to stakeholders.

### Hospital Management System

- Developed a hospital management system using **Java Swing** and **AWT** for the GUI.
- Implemented **SQL**-based backend to manage patient records, appointments, billing, and staff data.
- Enabled role-based access control for admin, doctor, and receptionist functionalities.
- Ensured smooth data flow with **CRUD** operations and real-time updates across modules.

### InstaCart-eCom website

- Developed a full-stack e-commerce website using **React** for the frontend and **Node.js**, **Express.js** with **RESTful APIs** for the backend.
- Integrated **MongoDB** for managing product listings, user accounts, orders, and payment records.
- Implemented user authentication, product search, shopping cart, and secure checkout features.

## SKILLS

- Languages: C, Java, Python, JavaScript, HTML, CSS
- Tools & Frameworks: Git/GitHub, NodeJS, ExpressJS, REST, Agile
- AIML: Machine Learning, Deep Learning, Natural Language Processing(NLP), Generative AI
- Database: MongoDB, MySQL
- Soft Skills: Leadership, Analytical Reasoning, Self-learning, Presentation, Teamwork, Collaboration
- Relevant Courseworks: Data Structure & Algorithm, Object Oriented Programming, Operating System, Computer Network, Database Management

## CERTIFICATES

- Fundamental Algorithm – Design and Analysis
- Python for Data Science
- Generative AI with Large Language Models
- Database Management System

## ACHIEVEMENTS

- Ranked among the **top 5%** in Design and Analysis of Algorithms program by **IIT Kharagpur**.
- Successfully completed 10 weeks AI-ML virtual internship by Eduskill Foundation and earned **Google Cloud Skill Boost** badges.
- Qualified for the **Smart India Hackathon**, organized by the Government of India.
- Solved **300+** **DSA** problems across platforms like **LeetCode**, **GeeksforGeeks**, and **HackerRank**.