

Maurya Samanta

📍 Kolkata, India ✉ mauryasamanta1508@gmail.com ☎ +91 8777838349

in mauryasamanta 🌐 MauryaSamanta

Education

Jadavpur University

BE in Production Engineering

Sept 2022 – May 2026

Salt Lake School (English Medium)

Class XII ISC Examination

May 2022

Projects

AI-Powered People Search Engine

[Demo Video](#) 

- Built a web app where users upload their LinkedIn **connections.csv** and search within their network using **natural language prompts** (Google OAuth 2.0).
- Built an **AI-powered search system** that stores connections data as **vector embeddings** and uses **cosine similarity** to find the most relevant results efficiently.
- Tools Used: **React.js, Node.js, MongoDB, Vercel, OpenAI API, Google API.**

Cloud-Based Encrypted Community App

[Github Repo](#) 

- Developed a **community platform** for chat, media sharing (100MB), and secure authentication.
- Implemented **asymmetric encryption** with **public key exchange**, storing **hashed keys** in MongoDB for secure chats.
- Implemented **cloud-based file viewers** to preview received files without downloading the same.
- Tools Used: **React Native, socket.io, Node.js, MongoDB, Cloudinary, AWS.**

Airport Congestion Predictor

[Blog](#)  [GitHub Repo](#) 

- Built **XGBoost classifier** model to predict **airport runway and taxiway congestion** from large flight delays dataset
- Applied data cleaning and engineered features like **average taxi out times in a particular time window** for each airport
- Applied hyperparameter tuning using **GridSearchCV** and achieved **accuracy of 89%**
- Integrated **MLflow** for experiment tracking
- Tools Used: **Python, Jupyter Notebook, Pandas, NumPy, Matplotlib, Scikit-learn.**

Skills

Core Concepts: Operating Systems, Database Management Systems, Computer Networks, Theory of Computation

Languages: Java, Javascript, Python

Frameworks: React.js, React Native, Electron.js, Node.js, Django, MLflow


Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, Jupyter Notebook

Database: MongoDB, PostgreSQL

Cloud: Amazon AWS, Cloudinary, pgAdmin

Achievements

Top 10/100 teams at HackForge'24 Hackathon, Jadavpur University

Secured global rank of 56 at CodeChef Starters 136 [Link](#) 

Solved 300+ Data Structures and Algorithms problems across Leetcode and GFG

Top 20/50+ teams SnapSyntax'24 Contest, Jadavpur University

Java Certificate HackerRank [Link](#) 