ATANU MANNA

Hooghly, West Bengal

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EDUCATION

The Neotia University, Diamond Harbour   **2021 − 2025**
*B.Tech - Computer Science and Engineering(Data Science) - **CGPA** - **9.02***   *Diamond Harbour, West Bengal*

TECHNICAL SKILLS

Languages: Python, SQL, C, Java
Technologies/Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, HuggingFace, Streamlit, Flask, LangChain
Developer & Deployment Tools: Git, GitHub, Docker, MLOps
AI & ML Tools: Data Cleaning, EDA, Machine Learning, Deep Learning, Generative AI
Databases: MySQL

EXPERIENCE

Intern at DCG Data Core System ↗   **Jan 2025 - Jun 2025**
Role - AI-Integrated Backend Developer   *Kolkata, West Bengal*
- Developed a full-stack ASP.NET Core MVC application for hospital patient registration ensuring secure data entry and modular design.
- Designed a **RAG** chatbot powered by LLMs for intelligent patient query handling.

Intern at WEBEL ↗   **June 2024 - August 2024**
Role - Data Science Intern   *Kolkata, West Bengal*
- Executed **What Makes a Country Happy** project by analyzing 2015–2019 global socio-economic data using EDA, clustering (K-Means), and correlation analysis to identify key drivers of happiness.
- Built a Streamlit-based analytics dashboard that transformed raw socio-economic data into interactive visualizations for data-driven policymaking.

Intern at AILABS ↗   **June 2023 - August 2023**
Role - Machine Learning Intern   *Kolkata, West Bengal*
- Built an end-to-end **Loan Approval Prediction** System with preprocessing, feature engineering, and ML models (**Logistic Regression, Random Forest, XGBoost**), achieving 89% accuracy on test data.
- Implemented model tracking with **MLflow**, containerized workflow using **Docker**, and deployed on **Render** for real-world usage.

PROJECTS

Career Assistant Platform ↗ | llama-3.3-70b-versatil, SQLAlchemy, Langchain, Flask   **2025**
- Developed an AI-powered Career Assistant that fetches job postings via APIs, parses user resumes, and recommends jobs using semantic similarity and embeddings.
- Integrated a RAG chatbot with **LLMs (Llama 3.3-70B)** to answer user queries and built automated PDF generation for resumes and cover letters.

Medical Insurance Cost Prediction ↗ | Python, Streamlit, Pandas, Matplotlib, Seaborn   **2025**
- Designed a modular ML pipeline for **Medical insurance cost prediction** using regression models(**Linear Regression, Random Forest, XGBoost, CatBoost**) achieving R^2 0.86.
- Performed EDA, feature engineering, and hyperparameter tuning (RandomizedSearchCV), then deployed via Streamlit on Render for interactive usage.

How Educated India Is ↗ | K-Means,Python,matplotlib,Seaborn   **2025**
- Executed the **How Educated India Is** project by analyzing census data (1991–2011) to study literacy trends across states, education levels, gender, age groups, and clustered states by similar literacy
- Forecasted literacy rates for 2021 and 2031 and built an interactive Streamlit dashboard deployed on Render.

CERTIFICATIONS

- Introduction to Generative AI - Google Cloud, Aug 2025
- Introduction to Data Science - Cisco Networking Academy, Sep 2025