

Aafi Mansuri

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EDUCATION

Northeastern University

Bachelor of Technology in Computer Science and Engineering

Boston, MA

Sep 2025 – Dec 2027

Ganpat University

Bachelor of Technology in Computer Science and Engineering | **CGPA:** 9.63

Mehsana, India

Aug 2021 – May 2025

Relevant Coursework: Machine Learning, Cognitive Computing, Predictive Modeling, Cloud Computing, Functional Programming, Web Development, DBMS, Data Structures, UI/UX

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++

Web Development: HTML5, CSS3, React.js, Next.js, Angular, Tailwind CSS, Bootstrap, FastAPI

Frameworks & Libraries: Pandas, NumPy, TensorFlow, PyTorch, Scikit-learn, Matplotlib, SQLAlchemy

Databases: MySQL, PostgreSQL, MongoDB, Firebase

AI/ML Tools: YOLO, Ollama, IBM SPSS Modeler

Other Tools: Git, AWS, Docker, Tableau, Clerk, VS Code

Soft Skills: Communication, Teamwork, Leadership, Adaptability, Time Management

EXPERIENCE

Bhaskaracharya Institute for Space Applications and Geo-Informatics (BISAG-N)

Artificial Intelligence Intern

Gandhinagar, India

Jan 2025 – Apr 2025

- Developed an **AI-powered web application** enabling users to query databases via natural language using a custom prompt-driven LLM (**Gemma-2 27B**).
- Contributed to **full-stack development** using **Next.js**, **Tailwind CSS**, **FastAPI**, and **PostgreSQL**.
- Integrated **Ollama** and **Clerk** for local **LLM deployment** and **authentication** with role-based access.
- Improved system scalability and **accuracy** in text-to-SQL translation through **prompt engineering** and **schema mapping**.

iBhavan

Flutter App Development Intern

Ahmedabad, India

May 2023 – June 2023

- Developed a **cross-platform mobile application** to connect clients with nurses for various in-home healthcare services.
- Implemented key features including appointment booking, service-provider matching, and real-time data synchronization using **Firebase**.
- Integrated **Firebase Authentication** and **Firestore** for secure login and data storage.
- Designed and built responsive **UI components** to ensure a smooth user experience using **Flutter**.

PROJECTS

AI-based Text-to-SQL Generator

Full-stack web app enabling natural language queries to structured databases.

- Translated user input into **SQL queries** using **Gemma-2 (27B)** LLM via **Ollama**.
- Built chat UI in **Next.js** + **Shadcn** with dark/light mode and multi-database switching.
- Added **role-based access control** via **Clerk** for admin-led user and DB management.
- Backend in **FastAPI** + **PostgreSQL**, using **SQLAlchemy** and **Pandas** for query handling.

Company Policy Chatbot

AI chatbot answering employee queries from company policy documents.

- Integrated **LLM** with a **vector database** from policy PDFs for accurate responses.
- Deployed via **Docker** on **AWS** with support for five concurrent users.
- Secured with **two-factor authentication** (email).

NutriTrack – Diet Recommendation System

Personalized nutrition tracking and meal recommendations.

- Built full-stack app using **Next.js** (frontend) and **FastAPI** (backend).
- Tracked **macronutrient intake** and delivered AI-powered **diet suggestions**, integrating **external recipe APIs** for flexibility.