

# Aafi Mansuri

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## EDUCATION

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### Northeastern University

Master of Science in Computer Science

Boston, MA

Sep 2025 – Dec 2027

**Coursework:** Natural Language Processing, Programming Design Paradigms, Algorithms, Pattern Recognition & Computer Vision

### Ganpat University

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

Mehsana, India

Aug 2021 – May 2025

**Coursework:** Machine Learning, Cognitive Computing, Predictive Modeling, Cloud Computing, Data Structures, DBMS

## SKILLS

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

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

**ML/AI:** PyTorch, TensorFlow, Hugging Face Transformers, Scikit-learn, Ollama, YOLO

**Databases & Tools:** PostgreSQL, MongoDB, Firebase, Git, AWS, Tableau

## EXPERIENCE

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

Artificial Intelligence Developer Intern

Gandhinagar, India

Jan 2025 – Apr 2025

- Built **AI-powered web app** for natural language database queries using **Gemma-2 27B** LLM with **Ollama**.
- Developed full-stack system with **Next.js**, **FastAPI**, and **PostgreSQL**; integrated **Clerk** for role-based auth.
- Improved text-to-SQL accuracy through **prompt engineering** and dynamic **schema mapping**.

### iBhavan

Flutter App Developer Intern

Ahmedabad, India

May 2023 – June 2023

- Developed **cross-platform mobile app** connecting clients with nurses for in-home healthcare services.
- Implemented appointment booking and real-time sync using **Firebase Authentication** and **Firestore**.
- Built responsive **UI components** in **Flutter** ensuring smooth cross-platform user experience.

## PROJECTS

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### AI-based Text-to-SQL Generator

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

- Generated and **executed SQL queries** from natural language using **Gemma-2 27B** via **Ollama**, returning results in chat UI.
- Built with **Next.js** + **FastAPI** + **PostgreSQL**; added admin panel for **multi-database management** and user access control.

### PaperChord – AI Chord Progression Generator

Text-to-MIDI generator that creates chord progressions from natural language descriptions.

- Fine-tuned **T5-small** on **synthetic dataset** (genre-based patterns) to generate Roman numeral progressions from mood prompts.
- Built **Next.js** + **FastAPI** app with in-browser **MIDI preview** via **Tone.js** and downloadable MIDI files.

### NutriTrack – Diet Recommendation System

Personalized nutrition tracking and meal recommendations.

- Built full-stack app using **Next.js** and **FastAPI**; tracked **macronutrients** with AI-powered diet suggestions.
- Integrated **external recipe APIs** enabling flexible meal planning based on user dietary goals and preferences.