

ASIF MAHMUD

[@ Email](#)[Phone](#)[LinkedIn](#)[GitHub](#)

Aspiring AI Engineer with experience in building AI-powered applications using Next.js, FastAPI, RAG and modern databases. Passionate about LLMs, AI agents, and real-world problem solving.

PROJECTS

Microjobs Portal 🔗

- Designed the frontend for a local part-time job board using Next.js, TailwindCSS and Shadcn.
- Built a recommendation system using TF-IDF and FAISS for efficient similarity search based on user interactions and job features
- Added features to sort jobs by how relevant they are or how close they are to the user.

AI Customer Support Chatbot 🔗

- Built a customer support chatbot that uses past solutions to answer new complaints.
- Used FastAPI and a PostgreSQL vector database to find similar past issues.
- Integrated a local LLM (Ollama with 'phi' model) to generate responses based on retrieved historical data.
- Used 'sentence-transformers' to generate and store text embeddings.

AI Writing Agent 🔗

- Built a smart writing assistant with LangChain and GPT-4o-mini to help with grammar, style, and content.
- Created tools for correcting grammar, rewriting text formally, simplifying complex sentences, and finishing articles.
- Used an OpenAI Functions agent with memory to understand context and provide better suggestions.

Snake Maramari - Multi-Snake AI Battle 🔗

- Created a competitive snake game in Python and Pygame where multiple AI snakes fight for survival.
- Coded different AI brains for the snakes, including A*, Minimax, and Greedy algorithms.
- Designed the game so up to 4 AI snakes can compete on the same board.
- Added a rule where snakes steal the score of opponents they defeat.

SKILLS

Programming Languages

C++

Python

JavaScript

Java

Web Development

FastAPI

Next.js

React

Tailwind CSS

AI / Machine Learning

scikit-learn

PyTorch

LangChain

LangGraph

Vector Search (FAISS, pgvector)

Transformers (BERT)

RAG

Databases

MongoDB

PostgreSQL

Tools & Technologies

Git & GitHub

Docker (learning)

EDUCATION

BSc in Computer Science and Engineering

Khulna University of Engineering & Technology

📅 Expected July 2026

CERTIFICATIONS

- Data Science Program – Ostad
- ITEE Level-2: FE Exam