A K Mahamudun Nabi
python developer

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ABOUT ME

I'm a Python developer specializing in fine-tuning **LLMs**, **VLMs**, and building **GenAI** projects. I also bring strong experience in **image processing** and expertise in **TensorFlow, PyTorch, NLTK, OpenCV, CrewAI, Hugging Face, OpenAI,** and **Ollama.**

EXPERIENCE

Software Developer   February 2025 - Present
Smart Field Service, Idol group

X-ray model (google vit base patch16 224)

- **Key Features & Contribution:** Classifies chest X-ray images into disease categories and generates diagnostic-style reports. Performed EDA with data balancing, augmentation, and normalization, then unfroze transformer layers for full fine-tuning, achieving a 21% improvement in classification accuracy over the baseline.

tytello (web Application)

- **Key Features & Contribution:** A digital visiting card powered by NFC that instantly shares contact details, portfolio links, and social profiles, offering a modern, eco-friendly way to network. Designed and implemented the database schema with Django ORM, built RESTful APIs for authentication and payments, integrated JWT for secure sessions, and connected SSLCommerz as the payment gateway.

facial attendance (web Application)

- **Key Features & Contribution:** Marks attendance automatically by checking face similarity with reference images and works with CCTV live feeds via RTSP. Built and optimized the database and APIs, implemented a YOLOv8 + FaceNet based face recognition pipeline with MediaPipe for liveness detection, enabling real-time, secure attendance tracking.

SFS landing page (website portfolio)

- **Key Features & Contribution:** Dynamic website showcasing company details, services, and products, with a RAG-powered chatbot to answer queries directly from company documents. Developed the database and REST APIs with Django and PostgreSQL, implementing the chatbot for intelligent, document-driven responses and delivering an interactive, user-friendly interface for clients and partners.

MIS intern   October 2024 - January 2025
Domino's Pizza

- Roster prediction using the 5 month ordering data
- Data analysis on pizza topping waste minimization
- Data visualization on the weekly sales report

SKILLS

- **Python Libraries & transformers:** TensorFlow, Pytorch, NLTK, OpenCV, CrewAi, Hugging Face, OpenAI, Ollama
- **Backend:** Django, FastAPI, Flask
- **Database:** MySQL, PostgreSQL.
- **Frontend:** React, Tailwind CSS, Bootstrap.
- **GitHub CI/CD pipeline, VPS, & Postman**

EDUCATION

BRAC University   2020-2024

- Bsc in Computer Science

CERTIFICATION

- **Data Science** (Ostad Limited)
  ID: C15231
- **Machine Learning Specialization (Coursera)**
  ID: W58WEXG9CWC6
- **Python Basic** (HackerRank)
  ID: D9F329B3869B