

A K Mahamudun Nabi

AI/ML Engineer

Links: [AI/ML Projects](#) | [Portfolio](#) | [LeetCode](#) | [LinkedIn](#)

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ACHIEVEMENTS

Applied end-to-end image processing pipelines and model optimization, while independently handling dynamic database management and server deployment with Nginx for production environments.

EXPERIENCE

Software Developer

Smart Field Service Ltd.

February 2025 - Present

Facial Attendance (web Application) | Django | PostgreSQL | Huggingface | JWT

- Key Features & Contribution:** Built a real-time facial recognition attendance system using YOLOv8 and FaceNet with MediaPipe-based liveness detection. Automated attendance by matching faces across multi-angle reference images generated from 180° short videos through frame extraction, enhancement, and augmentation. Integrated live CCTV feeds via RTSP for secure, real-time attendance tracking.

X-ray model (google vit base patch16 224) | Huggingface

- 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. For a medical project called Mpowersuit

ShopOur (web Application) [Live Link](#) | Django | MySQL | JWT | Facebook Graph API

- Key Features & Contribution:** Developed a Facebook Live commerce platform that fetches live streams and enables sellers to attach and sell products in real time, similar to an e-commerce workflow. Implemented Facebook Live rollback handling, converted live streams to RTSP, and built the backend using DRF with a dedicated seller database module.

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MIS intern

Domino's Pizza

October 2024 - January 2025

- 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

- BSc in Computer Science

2020-2024

CERTIFICATION

Data Science (Ostad Limited)

ID: C15231

Machine Learning Specialization (Coursera)

ID: W58WEXG9CWC6

Python Basic (HackerRank)

ID: D9F329B3869B