

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 Mpower suit

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