

Gazi Mohammad Fahim Faiyaz

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Education

Bachelor of Computer Science, East Delta University	2020 – 2024
• CGPA: 3.60/4.00	
• Research Focus: Computer Vision, Deep Learning, Medical Imaging, Object Detection, NLP, Generative AI, RAG-based Knowledge Retrieval, Vision-Language Models	
• Achieved academic distinction with 5× Dean's List Honors (GPA 3.5+) and 1× Vice Chancellor's List Honor (GPA 4.0).	

Experience

Computer Vision Engineer, Quantigo AI	Dec 2024 – Present
• Created and annotated large-scale image/video datasets for custom and pretrained Computer Vision models.	
• Supported engineering teams in testing and deploying production-ready object detection models.	
• Worked on key projects including Street Text Recognition, Microsurgical Scene Analysis, and Road Crack Detection.	
• Technologies: Python, OpenCV, PyTorch, YOLO, Roboflow, CVAT, Git	

Projects

Advanced Multi-Agent AI Fitness Coach	2025
• Technologies: Python, Streamlit, LangChain, Groq AI, AstraDB (Vector DB)	
• Built multi-agent system with smart routing for personalized fitness and nutrition guidance.	
• Implemented context-aware AI chat with conversation history and vector search capabilities.	
Driver Distraction Detection (Real-Time Computer Vision System)	2025
• Technologies: Python, YOLOv10, ONNX Runtime, Flask, Gradio, Docker, GitHub Actions	
• Built a YOLOv10-based system detecting 12 distraction behaviours with 98.1% mAP@50.	
• Optimized ONNX inference and deployed via Flask, Docker, and GitHub Actions CI/CD.	
Computer Science Research Article Classification (SciBERT, Multi-Label)	2025
• Technologies: Python, SciBERT, FastAI, ONNX, Flask, Gradio, Selenium, Docker	
• Created a custom dataset of 30,000 arXiv papers using Selenium; achieved 97.4% accuracy with SciBERT.	
• Exported the model to ONNX and deployed on Render and Hugging Face Spaces.	
Bangladeshi Landmarks Recognition	2025
• Technologies: Python, FastAI, PyTorch, DenseNet121, Gradio, GitHub Pages	
• Built a self-scraped dataset of 16,741 images using DuckDuckGo and FastAI tools.	
• Achieved 99.9% accuracy using DenseNet121; deployed via Gradio on Hugging Face.	
King County House Price Predictor (ML Web App)	2025
• Technologies: Python, Scikit-learn, XGBoost, FastAPI, HTML/CSS, Docker, GitHub Actions	
• Developed an XGBoost regression model with real-time FastAPI endpoints.	
• Deployed using Docker and GitHub Actions CI/CD on Render.com.	
FIFA Player Analytics (2012–2025)	2025
• Technologies: Python, Selenium, Pandas, Jupyter, Tableau	
• Scrapped 14 years of FIFA player data for rating, wage, and market-value trends.	
• Built automated scraping scripts and interactive Tableau dashboards.	

Mango Ripeness Classification with XAI (Xception-LSTM)	2025
• Technologies: Python, TensorFlow, Keras, Xception, LSTM, Grad-CAM	
• Built a hybrid Xception + LSTM model achieving 98–99% accuracy on a 6,000-image dataset.	
• Applied Grad-CAM to highlight color–texture regions relevant to ripeness classification.	
Brain Tumor Detection using YOLOv10 & Hybrid CNN Models with Explainable AI	2024
• Technologies: Python, TensorFlow, PyTorch, OpenCV, Ultralytics (YOLOv10), Grad-CAM	
• Achieved mAP50 = 0.964 using multiple YOLOv10 variants for MRI tumor detection.	
• Developed hybrid VGG19–LSTM and VGG16–Inception models with Grad-CAM explainability.	

Skills

Programming & Tools: Python, C/C++, SQL (MySQL), Git, Jupyter Notebook, Tableau

AI/ML & Computer Vision: Machine Learning, Deep Learning, Computer Vision, Object Detection, Segmentation, Predictive Analytics; TensorFlow, PyTorch, Keras, Scikit-Learn, FastAI, OpenCV, Ultralytics

NLP & LLMs: Transformers, LLM Basics, Embeddings, RAG, LangChain, LangFlow, Prompt Engineering; Vector Databases (ChromaDB, AstraDB, Pinecone)

Data Engineering: Selenium, Web Scraping, Automated Data Pipelines, Data Cleaning & Preprocessing

MLOps & Cloud: Docker, GitHub Actions, MLflow, ONNX Runtime, FastAPI, Flask, Gradio, Hugging Face Spaces, Roboflow; AWS (Basic), Azure (Basic)

Publications

Deep Learning for Brain Tumor Detection Leveraging YOLOv10 for Precise Localization	2024
• IEEE RAAICON 2024	
A Hybrid Deep Learning Approach For Brain Tumor Detection Using XAI with Grad-CAM	2024
• ICCIT 2024	
Hybrid Xception-LSTM Model for Explainable Mango Ripeness Classification Using Grad-CAM	2025
• IEEE RAAICON 2025	
Tea Leaf Disease Detection and Classification Using YOLOv11 and Transfer Learning with Grad-CAM	2025
• ICCIT 2025	
Deep Learning Approaches for Distracted Driving Detection Using YOLOv10-S and EfficientNet-B0	2025
• ICCIT 2025	

Courses and Certifications

Dokkho MasterCourse — Data Science Career Program (Cohort 7)	2025
• Selected through a task-based assessment; trained to build end-to-end data science projects and completed 4 industry-focused capstone projects.	
Complete Machine Learning & NLP Bootcamp + MLOps Deployment — Udemy	2024
• Learned ML, NLP, feature engineering, deployment (Docker), and MLOps practices for real-world AI systems.	
Generative AI with LangChain & HuggingFace — Udemy	2024
• Gained hands-on experience in LLM applications, embeddings, vector databases, RAG pipelines, and agent-based workflows.	
App Development with Flutter — Ostad	2024
• Gained practical experience building cross-platform mobile apps using Flutter and Dart.	

Languages

Bangla (Native) · English (Fluent) · Hindi (Fluent)