

Faizan Ashraf

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🌐 LinkedIn 🌐 Portfolio 🐙 GitHub

Summary

Data Scientist with 1.5 years of experience delivering 5+ ML/DL projects for international clients. Skilled in machine learning, deep learning, computer vision, NLP, and MLOps practices, including model deployment, CI/CD pipelines, Docker, and monitoring. Published researcher in medical image analysis (ICEPECC 2025). Passionate about applying AI to solve real-world challenges in healthcare, safety, and automation.

Experience

Freelance Data Scientist

Feb 2024 – Present

Fiverr (Remote)

- Delivered a **Chest Disease Detection** model achieving **94% accuracy**, improving diagnostic support for healthcare clients.
- Developed a **Drone Imagery Vehicle Detection** system using high-altitude bird's-eye images for real-time monitoring.
- Built a **Real-Time Drowsiness Detection** application with **OpenCV** and deep learning to enhance driver safety.
- Designed and implemented an **EEG-fNIRS Hybrid Brain-Signal Analysis** pipeline, applying multi-modal fusion with advanced deep learning models (**LSTM, GRU, LSTM+FCN, LSTM+GRU**).

Projects

- **Python Documentation Chatbot (RAG System)** – Developed a Retrieval-Augmented Generation chatbot using **Python, LangChain, HuggingFace, FAISS, and Streamlit**. Implemented semantic search over Python documentation with **sentence-transformers** and FAISS for efficient retrieval, enhancing query accuracy and user assistance.
- **Cervical Cancer Detection (Ensemble Learning)** – Designed ensemble (**DenseNet, MobileNet, Xception**) achieving **98%+ accuracy**. Research accepted at **ICEPECC 2025**.
- **Visual Media Restoration** – Built **auto-encoder** model for image/video restoration; achieved state-of-the-art benchmarks.
- **Drowsiness Detection System** – Real-time driver safety system with **OpenCV + Dlib, 95% accuracy** in detecting drowsiness.
- **YOLOv8 Object Detection** – Fine-tuned **YOLOv8** on COCO dataset; improved detection accuracy by **5%** and reduced manual monitoring effort by **40%** through automation.

Technical Skills

- **Programming:** Python, SQL, Java
- **ML/DL Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, XGBoost, LightGBM
- **Computer Vision:** OpenCV, YOLO, MediaPipe
- **NLP/LLMs:** Hugging Face, LangChain, LangGraph, OpenAI API, spaCy, NLTK, BERT, GPT
- **Visualization:** Power BI, Matplotlib, Seaborn, Plotly
- **MLOps:** Docker, Git, CI/CD, Model Deployment, Monitoring
- **Tools:** Kaggle, Colab, Jupyter, VS Code

Education

Bachelor of Science in Data Science

2021 – 2025

GIFT University, Pakistan

Publications

“**Stacking-Based Ensemble for Cervical Cancer Detection**” – Accepted at International Conference on Energy, Power, Environment, Control, and Computing (ICEPECC 2025).