

FAIZAN ARIF

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About

AI Engineer with hands-on experience in ML, DL, NLP, and Generative AI. Skilled in building, training, and deploying end-to-end AI solutions, including OCR, multilingual text processing, RAG systems, and AI agents. Experienced in prompt engineering and developing scalable AI solutions for real-world applications, with strong problem-solving and collaboration skills.

Experience

Tkxel **Sep 2025 – Present**
Associate GenAI Engineer *Lahore, Pakistan*

- Designing and deploying Generative AI solutions using LLMs, RAG, and prompt engineering.
- Built and deployed AI Agents using LangChain, LangGraph, and LangSmith for real-world workflows.

Machine Learning 1 Limited **Jul 2025 – Aug 2025**
Data Scientist Intern *Lahore, Pakistan*

- Worked on OCR postprocessing and seq-to-seq AI models, quickly learning mT5 architecture to meet project goals.
- Collaborated with a 4+ member agile team to optimize model performance and reduce response latency.

Machine Learning 1 Limited **Jun 2025 – Jun 2025**
Data Science BootCamp *Lahore, Pakistan*

- Completed intensive training in machine learning and deep learning, algorithms, and applications
- Hands-on experience with Python, scikit-learn, TensorFlow, and data preprocessing techniques

Projects

- 🔗 **GenAI SQL Agent** | *LangChain, DeepAgent, Redis, PostgreSQL, Azure*
 - Built a GenAI-based SQL agent using LangChain to translate natural language queries into optimized SQL across 200+ database tables with persistent workflows in PostgreSQL.
 - Improved performance and reliability by implementing Redis-based caching and structured logging with Loguru in production.
- 🔗 **MRZ Segmentation for Documents** | *YOLOv8-seg, OpenCV, PyTorch*
 - Improved dataset robustness as measured by a 4x increase (2.5k→10k+ samples) by annotating MRZ polygons and applying targeted augmentations.
 - Achieved 99.5% segmentation accuracy as measured on documents from 20+ countries by fine-tuning YOLOv8-seg with optimized training strategies.
- 🌐 **Portfolio Website** | *FastAPI, AWS EC2, Nginx, Python, HTML/CSS/JS*
 - Developed and deployed a portfolio website showcasing projects and skills, with backend APIs built using FastAPI.
 - Hosted on AWS EC2 with Nginx, implemented CI/CD pipelines from Bitbucket using SSH.

Education

Punjab University College of Information Technology (PUCIT) **Nov 2021 – Jun 2025**
Bachelor of Science in Data Science *Lahore, Pakistan*

Certifications

How Transformers Work – DeepLearning.AI

Attention in Transformers: Concepts and Code in PyTorch – DeepLearning.AI

Docker Training Course for the Absolute Beginner – KodeKloud

ChatGPT Prompt Engineering for Developers – DeepLearning.AI

Cybersecurity Essentials – Cisco

Technical Skills

Programming Languages: Python

Developer Tools: Git, Docker

Databases: MySQL, MongoDB, PostgreSQL, Redis

Libraries & Frameworks: TensorFlow, LangChain, LangGraph, PyTorch, Celery, HuggingFace, Scrapy, Selenium

Artificial Intelligence: RNNs, LSTMs, CNNs, Transformers, Encoder-Decoder, RAG, Agents, Transfer Learning