Yasir Wali

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Summary

Associate AI/ML Engineer skilled in building scalable machine learning systems and deploying end-to-end pipelines using MLOps tools such as Docker, Git, and AWS. Experienced in Generative and Agentic AI, leveraging LLMs, LangChain, and LangGraph to develop autonomous, reasoning-driven AI solutions.

Work Experience

- **Data Science Intern — 10Pearls Pakistan**   **Sept 2025 – Nov 2025**
  - Developing an Air Quality Index prediction system using real-time API data and machine learning.
  - Implementing CI/CD pipelines for continuous integration, model retraining, and deployment.
- **AI/ML Intern — Siber Koza Alpha (NASTP)**   **July 2025 – Sep 2025**
  - Built LangGraph-based agent workflow to detect and manage cyberattacks.
  - Created RAG chatbot with LangChain and LLaMA 3 for accurate, explainable answers.

Education

BSc Artificial Intelligence   **(NUML), Islamabad**   **Jan 2022 – Jan 2026**

- Relevant Coursework: Machine Learning , NLP, Computer Vision, Data Mining, Speech Processing
- GPA: 3.3/4.00

Projects

- **Final Year Project – AI Virtual Try-On System**   ⍟
  Developed a deep learning-based virtual try-on system using computer vision to digitally overlay outfits on users. Implemented pose estimation and garment warping for realistic fitting, enabling users to virtually try outfits before purchase and enhancing online fashion experience.
- **Vehicle Insurance MLOps Pipeline**   ⍟
  Built an end-to-end MLOps pipeline for the Vehicle Insurance domain, from MongoDB data ingestion to model training, evaluation, and experiment tracking. Deployed the best model using FastAPI, Docker, and AWS EC2 with proper artifact management and a production-ready setup.
- **Telco ChurnGuard – End-to-End MLOps Pipeline**   ⍟
  Telco ChurnGuard MLOps is an end-to-end, production-ready ML system for telecom churn prediction with automated pipelines and MLflow tracking. Deployed using FastAPI and Docker on AWS EC2 for a scalable, cloud-ready solution.
- **Air Quality Index Prediction System (Islamabad)**   ⍟
  Developed a machine learning pipeline to forecast AQI using real-time API data and feature engineering with Hopsworks Feature Store. Integrated CI/CD pipelines for automated retraining, improving prediction reliability and public awareness of air quality levels.

Technical Skills

- **Languages & Tools**: Python, SQL, TensorFlow, PyTorch, Scikit-Learn, Streamlit, FastAPI, MLflow, Git, GitHub Actions, Docker, Azure, AWS
- **Techniques**: Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI, Model Deployment
- **Soft Skills**: Problem Solving, Team Collaboration, Excellent Communication

Certifications

- **Oracle Cloud Infrastructure 2025 Data Science Professional**   ⍇
- **Oracle Cloud Infrastructure Generative AI Professional**   ⍇
- **Complete Generative AI with LangChain and HuggingFace – Krish Naik**   ⍇