Yasir Wali

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Summary

AI/ML Engineer with hands-on experience building production ML systems and deploying end-to-end pipelines using Docker, AWS, and CI/CD systematization. Proficient in Generative AI and LLM-based solutions, having deployed scalable ML applications with FastAPI, achieving 85%+ model accuracy across multiple domains.

Work Experience

- **Data Science Intern | 10Pearls Pakistan**   **Sep 2025 – Nov 2025**
  - Built Air Quality Index (AQI) prediction system achieving 87% accuracy using real-time API data from 15+ environmental monitoring stations, processing 50K+ data points hourly with mechanized feature engineering pipeline leveraging advanced statistical analysis and machine learning techniques.
  - Implemented CI/CD pipelines with GitHub Actions, reducing model deployment time by 75% (from 2 hours to 30 minutes) and enabling computerized weekly retraining, improving operational efficiency through continuous model optimization and performance monitoring.
- **AI/ML Intern | Siber Koza Alpha (NASTP)**   **July 2025 – Sep 2025**
  - Enhanced LangGraph-based agentic workflow detecting 12+ cyberattack patterns with 89% precision, reducing threat response time by 60% through systematized incident classification, risk prioritization, and real-time alerting systems.
  - Created Retrieval-Augmented Generation (RAG) chatbot using LangChain and LLaMA 3, achieving 92% answer relevance on 2K+ cybersecurity queries and improving analyst decision-making efficiency by 40% through intelligent document retrieval and context-aware response generation.

Education

BSc Artificial Intelligence   **NUML, Islamabad**   **Jan 2022 – Jan 2026**
- GPA: 3.3/4.00
- Relevant Coursework: Machine Learning, NLP, Computer Vision, Data Mining, Deep Learning, Statistical Analysis

Projects

- **AI Virtual Try-On System (Final Year Project)**
  - Built virtual try-on system using pose estimation and garment warping with 91% accuracy on 50K+ images.
  - Optimized preprocessing, reducing data preparation time by 40%.
  - Improved garment fitting realism, enabling faster try-on for 10K+ test images.
- **LangGraph RAG Trinity**
  - Expanded a RAG agent using LangChain and LangGraph, delivering 92% relevant answers on 1K+ queries.
  - Implemented Adaptive, Corrective, and Self-RAG strategies, reducing hallucinations by approximately 20%.
  - Maintained citation-backed outputs for reliable technical responses.
- **Vehicle Insurance MLOps Pipeline**
  - Built an end-to-end pipeline on 100K+ records, achieving 88% claim prediction accuracy.
  - Tracked 50+ experiments via MLflow for reproducibility and model selection.
  - Deployed best model via FastAPI and Docker on AWS EC2, serving 500+ daily predictions.
- **Telco ChurnGuard – End-to-End MLOps Pipeline**
  - Improved a churn prediction system with streamlined pipelines, achieving 85% test accuracy.
  - Deployed as REST API with Docker and FastAPI, handling 200+ batch predictions daily.
- **Air Quality Forecasting System (Islamabad)**
  - Built AQI forecasting system achieving 82% accuracy for 24-hour predictions across PM2.5, PM10, and CO metrics.
  - Deployed via FastAPI and Streamlit with hourly updates from OpenWeather API, maintaining 95% uptime.
  - Integrated 6-month historical data analysis for trend visualization and seasonal pollution pattern comparison.

Technical Skills

- **Programming & Tools:** Python, SQL, Git, GitHub Actions, Docker, FastAPI, MLflow, DVC, LangChain, LangGraph
- **Machine Learning & AI:** Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI, Agentic AI
- **Data & Cloud:** MongoDB, PostgreSQL, Pandas, NumPy, TensorFlow, PyTorch, AWS (EC2, S3)
- **Soft Skills:** Problem Solving, Team Collaboration, Technical Communication, Adaptability

Certifications

- **Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25)**
- **Oracle Cloud Infrastructure Generative AI Professional**
- **Complete Generative AI with LangChain and Huggingface**