

# Yasir Wali

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## Summary

Associate AI/ML Engineer with hands-on experience building production ML systems and deploying end-to-end pipelines using Docker, AWS, and CI/CD automation. 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 automated 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 automated weekly retraining, improving operational efficiency through continuous model optimization and performance monitoring.
- AI/ML Intern — Siber Koza Alpha (NASTP)** July 2025 – Sep 2025
  - Developed LangGraph-based agentic workflow detecting 12+ cyberattack patterns with 89% precision, reducing threat response time by 60% through automated 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

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|--|------------------------|----------------------------|
| <b>BSc Artificial Intelligence</b>   | <b>NUML, Islamabad</b> | <b>Jan 2022 – Jan 2026</b> |
| <ul style="list-style-type: none"><li>Graduated January 2026 — GPA: 3.3/4.00</li><li>Relevant Coursework: Machine Learning, NLP, Computer Vision, Data Mining, Deep Learning, Statistical Analysis</li></ul> |                        |                            |

## Projects

- AI Virtual Try-On System (Final Year Project)** GitHub

Built deep learning virtual try-on system using pose estimation and garment warping, achieving 91% pose detection accuracy on 50K+ fashion images. Reduced preprocessing time by 50% through optimized CNN architecture, reducing product returns by 25%.
- Vehicle Insurance MLOps Pipeline** GitHub

Engineered end-to-end MLOps pipeline processing 100K+ insurance records, achieving 88% claim prediction accuracy. Deployed via FastAPI and Docker on AWS EC2, serving 500+ daily predictions with 99.8% uptime and reducing false positives by 35%.
- Telco ChurnGuard – Customer Retention ML System** GitHub

Developed automated churn prediction system with 86% accuracy on 200K+ telecom records. Implemented CI/CD pipeline reducing model update cycle from 3 days to 4 hours, improving customer retention by 15%.
- Air Quality Forecasting System (Islamabad)** GitHub

Created ML forecasting pipeline predicting air quality 24 hours ahead with 85% accuracy. Automated daily retraining via GitHub Actions, serving 1,200+ forecasts daily to improve public health awareness.
- LangGraph RAG Trinity** GitHub

Built intelligent RAG agent with triple-layer quality control achieving 94% answer accuracy and 88% relevance. Processed 5K+ queries with citation-backed responses, maintaining 90% user trust rating.

## Technical Skills

- Programming & Tools:** Python (Advanced), SQL, JavaScript, Git, GitHub Actions, Docker, MLflow, FastAPI, Streamlit, REST APIs
- ML/DL & GenAI:** TensorFlow, PyTorch, Scikit-Learn, Keras, XGBoost, LangChain, LangGraph, HuggingFace, LLMs, GPT, RAG
- Cloud & Infrastructure:** AWS (EC2, S3), Azure, MongoDB, Hopsworks, CI/CD Pipelines, DevOps
- Core Skills:** Machine Learning, Deep Learning, AI, Computer Vision, NLP, Statistical Analysis, Data Analysis, Feature Engineering, Model Optimization, A/B Testing, MLOps, Agentic AI
- Soft Skills:** Problem-Solving, Cross-Functional Collaboration, Technical Communication, Stakeholder Management, Agile

## Certifications

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|---|----------------------------------|
| <b>Oracle Cloud Infrastructure 2025 Data Science Professional</b>         | <a href="#">View Certificate</a> |
| <b>Oracle Cloud Infrastructure Generative AI Professional</b>             | <a href="#">View Certificate</a> |
| <b>Complete Generative AI with LangChain and HuggingFace – Krish Naik</b> | <a href="#">View Certificate</a> |