

MUHAMMAD YASEEN

Data Scientist | Generative AI | ML Engineer | AI Engineer | NLP Engineer

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SUMMARY

As an AI Engineer specializing in Python, I excel in architecting and operationalizing end-to-end machine learning systems. My expertise encompasses developing sophisticated neural architectures, production-grade computer vision solutions, and transformative NLP models. I am driven by converting intricate data into strategic assets that deliver measurable business value and a decisive competitive edge.

EXPERIENCE

AI Engineer

One Network

Mar 2025 – Present Islamabad, Punjab, Pakistan

- > Designed and deployed scalable AI/ML microservices for network optimization, including traffic routing, anomaly detection, and predictive resource allocation.
- > Developed Generative AI models for synthetic data and computer vision systems for automated infrastructure monitoring to improve network security and reliability.
- > Built AI-driven data pipelines and integrated LLMs into customer support systems to predict network failures and enhance the user experience.

AI Engineer

EmporionSoft Pvt Ltd

Jan 2024 – Feb 2025 Lahore, Punjab, Pakistan

- > Architected ML/DL algorithms to detect sophisticated robotic fraud, protecting Amazon advertisers from evolving threats.
- > Engineered a DNN-based crawler detection model that increased robotic coverage by 11.9% and Impression IVR by 4.9%.
- > Diagnosed and resolved data quality issues through statistical analysis to enhance the performance of predictive models.

Machine Learning Engineer

Evolve Innovative Solutions

Sep 2023 – Dec 2023 Lahore, Punjab, Pakistan

- > Engineered an ML framework to automate document generation from procedural videos, enhancing multimedia accessibility.
- > Validated the framework's utility and superior performance against existing benchmarks through empirical evaluation.

EDUCATION

Bachelor's Degree in Computer Science

University of Malakand

Sep 2019 – Aug 2023 KPK Pakistan

- > CGPA: 3.73
- > Paper/FYP: [Multi-Disease Prediction Using Machine Learning and Deep Learning Models.](#)

Key Skills

> **Generative AI & Large Language Models:** Transformer Architectures, LLM Fine-Tuning (LoRA, QLoRA, PEFT), RAG Systems, Prompt Engineering, LangChain, LlamaIndex, Diffusion Models, GANs.

> **AI System Architecture:** End-to-End ML Pipelines, Scalable API & Microservice Design, MLOps (CI/CD, MLflow, W&B), Vector Databases (Pinecone, FAISS), Model Deployment & Optimization.

> **Computer Vision:** Vision Transformers (ViT, DETR), Segment Anything Model (SAM), Object Detection (YOLO, Faster R-CNN), Image Segmentation, Multimodal AI (CLIP, BLIP).

> **Core Machine Learning:** Deep Learning (CNNs, RNNs, LSTMs), Supervised & Self-Supervised Learning, Reinforcement Learning, Statistical Analysis, Time-Series Forecasting, Anomaly Detection.

> **Programming & Cloud:** Python (PyTorch, TensorFlow, Scikit-learn, Pandas), Django, Flask, FastAPI, Docker, Kubernetes, AWS (SageMaker), GCP (Vertex AI), SQL.

CERTIFICATIONS

> Machine Learning Specialization [url]

> Foundations: Data, Data, Everywhere [url]

> Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital [url]

> IBM AI Engineering Professional Certificate [url]

> Introduction to Data Science in Python [url]

LANGUAGES

> **Urdu:** Fluent

> **English:** Conversational

REFERENCES

Available upon request.