Walid Khan

AI Engineer
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Summary

AI Engineer with hands-on experience in Machine Learning, Deep Learning, NLP, and Computer Vision. Completed advanced training (ML to LLMs) in Generative AI, Transformers, and MLOps. Proficient in building real-world AI systems using TensorFlow, PyTorch, and CI/CD workflows. Passionate about solving real-world problems via AI innovation, automation, and scalable deployment.

Education

- **Bachelor of Science in Artificial Intelligence** 08/2022 – 05/2026
  University of Engineering and Technology Mardan (UETM) *Mardan, Pakistan*
- July 2022 – Present — CGPA: 3.67/4.0

Skills

- **Core:** Artificial Intelligence, Machine Learning, Deep Learning, NLP, Computer Vision
- **Frameworks:** TensorFlow, PyTorch, FastAPI, HuggingFace, LangChain, YOLOv11
- **Tools:** Git, Gradio, Streamlit, OpenCV, FAISS, Jupyter, Google Colab VS Code
- **Databases:** MySQL (Queries, Schema Design, Joins)
- **Soft Skills:** Problem Solving, Communication, Teamwork

Experience

- **Machine Learning Intern** 10/2024 – 01/2025
  CodeAlpha *Pakistan*
- Developed and optimized ML models, performing preprocessing and predictive analytics on real datasets.
- Worked on automation pipelines, improving model accuracy and deployment readiness.
- **Advanced AI Bootcamp: From ML to LLMs** 07/2025 – 08/2025
  GIK Institute & Asher Aziz Foundation *Pakistan*
- Completed hands-on training in Machine Learning, Deep Learning, Computer Vision, NLP, Transformers, MLOps, and Generative AI.
- Built and deployed real-world AI projects using TensorFlow, PyTorch, MLflow, Docker, and CI/CD pipelines.

Projects

- **Tool Calling AI Agent (LangChain)**: Developed AI agent capable of tool calling and task automation using Python and LangChain. [GitHub]
- **Document-AI-Assistant-RAG**: Built an intelligent chatbot using LangChain, HuggingFace, FAISS, and Gradio to extract Q&A from PDFs, DOCX, PPTX, CSV, XLSX. [GitHub]
- **Object Detection & Segmentation (YOLOv11n-seg)**: Custom dataset training for faces, shoes, and watches with precise segmentation. [GitHub]
- **Fashion-MNIST Classifier (VGG16)**: Applied transfer learning to classify clothing images, achieving high accuracy. [GitHub]

- **Construction Site Safety (YOLOv11n)**: Real-time detection of helmets and vests to ensure safety compliance at construction sites. [GitHub]
- **CardioNet – Heart Disease Detection**: Developed ML pipeline for heart disease prediction using healthcare data, improving early diagnosis. [GitHub]
- **PDF Malware Detection (LSTM)**: Implemented deep learning for classifying and detecting malicious PDFs. [GitHub]
- **AgriClimate Risk Prediction (ANN)**: Predicted crop yield with preprocessing, feature engineering, and ANN tuning. [GitHub]
- **Diabetes & Stress Prediction Models**: Implemented ML models for early risk detection with visualization dashboards. [GitHub]

Languages

- English (Proficient)
- Urdu (Native)
- Pashto (Native)