MUHAMMAD SHAHZAIB

AI / ML ENGINEER

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SUMMARY

AI/ML Engineer with expertise in building ML-powered web apps, chatbots, and predictive models. Skilled in Python, TensorFlow, and LangChain, with proven success in healthcare AI, computer vision, and NLP projects. Strong problem solver, coding competition winner, and active Kaggle contributor.

PROFESSIONAL EXPERIENCE

Intern – AISoftdevs   August 2025 - Sep
- Performed exploratory data analysis to extract insights and improve model performance.
- Assisted in AI model development, data preparation, and project workflow support.

Intern - Arch Technologies & - Islamabad (Remote)   June 2025 - July
- Assisted in building and testing ML models for real-world applications.
- Performed data preprocessing, feature selection, model training, and evaluation.

PROJECTS

Industrial Basics and General Application   Nov 2024 - March 2025
- **Blood Glucose Prediction (ANN):** Developed an artificial neural network to forecast glucose levels, applying deep learning techniques in healthcare predictive modeling.
- **Crop Disease Detection (CNN):** Built a convolutional neural network to identify crop diseases from images, showcasing computer vision skills for agriculture AI.
- **RAG Chatbot (LangGraph + LangChain):** Implemented a Retrieval-Augmented Generation chatbot using LangGraph and LangChain, integrating vector databases for contextual Q&A.
- **Wardrobe Assistant Web App**: Designed a web app for personalized clothing recommendations, demonstrating data preprocessing, recommendation systems, and deployment.
- **AI-Driven Academic Web App (API):** Created an AI-powered academic assistant using API integration, highlighting ML model serving and web application deployment.
- **NLP Sentiment Analysis (XM Dataset):** Applied natural language processing to classify sentiment, demonstrating text analytics and model deployment.

SKILLS

- Python,
- C, C++
- HTML, CSS

- Flask, FastAPI, MySQL
- TensorFlow, PyTorch
- Scikit-learn, Pydantic
- LangChain, LangGraph
- Basic ML-OPS

- Pandas, NumPy
- Matplotlib, Seaborn
- Plotly, Power BI
- Tableau, MongoDB
- Docker, AWS

EDUCATION

Government College University Faisalabad   2021 - 2025
- Winner of individual & team-based coding competitions (2024).
- Completed multiple ML/AI projects and collaborated with peers on AI & web applications.

ADDITIONAL INFORMATION

- **Languages:** English, Urdu, Punjabi.
- **Certifications:** Introduction to Deep Learning - Coursera, Regression Models - Coursera, Deeplearning.ai Specialization, Virtual Assistant - DigiSkills.
- **Awards/Activities:** Winner, Individual Coding Competition – 2024, Winner, Team-Based Coding Competition – 2024, Completed multiple AI, ML, and web development projects, Contributor to Kaggle challenges and online learning communities