

MUHAMMAD ZOHAIB

Junior AI/ML & Data Science Engineer

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Professional Summary

Software Engineer with ~1 year in MERN stack development, now specializing in Machine Learning. Skilled in building RESTful APIs and ML models using Python, scikit-learn, pandas, and Tensor Flow. Passionate about NLP, with expertise in preprocessing, feature engineering, and model evaluation.

Core Skills

- **Programming:** Python, JavaScript, C++
- **ML Libraries:** Scikit-learn, pandas, NumPy, Tensor Flow, PyTorch (basics), Transformers.
- **NLP:** Tokenization, text cleaning, word embedding, sentiment analysis.
- **Data:** MySQL, data wrangling, exploratory data analysis (EDA).
- **Agentic AI & LLMs:** LangChain, LangGraph, OpenAI API, Prompt Engineering, Multi-Agent Orchestration, Tool Integration.
- **Tools:** Git, GitHub, Docker, Postman, VS Code, Cursor.
- **Web & APIs:** Flask (basic), FastAPI, RESTful design, JWT, Node.js, Express.
- **Soft Skills:** Agile collaboration, requirements gathering, documentation, continuous learning.

Professional Experience

AI/ML Internship Sygnls, Lahore | May 2025 – Jul 2025

- Completed hands-on internship in **Artificial Intelligence & Machine Learning**, focusing on practical implementation of AI solutions.
- Specialized in **Agentic AI** development, integrating autonomous agents with real-world applications.
- Applied **prompt engineering, tool integration, and multi-agent orchestration** for intelligent decision-making systems.
- Collaborated in team projects involving **data preprocessing, model deployment, and performance optimization**

Personal ML & Data Science Projects

Customer Churn Prediction

- Built a **machine learning model** to predict customer churn using historical customer data.
- Performed **data cleaning, feature engineering, and exploratory data analysis (EDA)** to identify churn drivers.
- Applied classification algorithms including **Logistic Regression, Random Forest, and XGBoost**, comparing performance metrics.

- Visualized churn trends and insights using **Matplotlib and Seaborn** for stakeholder reporting.

Voice Interview Agent

- Developed an **AI-powered voice interview platform** enabling candidates to log in/sign up, upload resumes & JD and receive personalized interview questions.
- Implemented **LLM-based question generation** and intelligent evaluation logic tailored to job descriptions.
- Integrated **speech-to-text transcription** for real-time response capture and accuracy analysis.
- Built **multi-round interview flow** with scheduling, email reminders, and automated round unlocking.

Handwritten Digit Recognition (MNIST)

- Built a **CNN**-based model in TensorFlow/Keras to classify handwritten digits.
- Achieved high **accuracy** through model tuning and dropout regularization.
- Deployed as a simple web app with Flask for real-time digit recognition.

Education

BS Information Technology – University of Education, Lahore | 2023 – 2027 (In Progress)

Relevant Coursework: Machine Learning, Data Mining, Probability & Statistics, Linear Algebra.