

Sultan Mehmood

Machine Learning Engineer

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EDUCATION

National University of Technology Islamabad

Bachelor of Science in Artificial Intelligence (BS AI) 7th semester

Islamabad, Pakistan

October 2022 - June 2026

SKILLS SUMMARY

- **Languages:** Python, Java, JavaScript, TypeScript, SQL, HTML, CSS
- **Frameworks:** TensorFlow, PyTorch, Keras, LangChain, LangGraph, RAG, Node.js, Express.js, React.js, FastAPI, Flask
- **Libraries:** Scikit-learn, Matplotlib, OpenCV, NumPy, Seaborn, Pandas, Pickle, NLTK, Transformers (Hugging Face), Chroma
- **Databases:** PostgreSQL, SQLite, Prisma, SQLAlchemy, Firebase, Supabase
- **Tools:** Git, GitHub, Docker, Containers, Azure, Postman, Streamlit, Tableau, Power BI, Google Colab, Jupyter Notebook, Visual Studio, VS Code, PyCharm, Anaconda, TensorBoard, PromptTools, FAISS
- **Core Concepts:** Machine Learning, Deep Learning, Computer Vision, Digital image processing, GANs, DCGANs, NLP, LLM
- **Other Skills:** Data preprocessing, feature engineering, API integration, Database Management System, fast API, Flask

WORK EXPERIENCE

AI Development Intern at Embrace IT Technologies

Gulberg Greens, Islamabad

July 2025 – September 2025

As an AI Development Intern, I contribute to backend and AI model development. My responsibilities include building and maintaining backend services using Node.js, Express.js, and PostgreSQL, and working on LLM fine-tuning and customization to enhance performance for specific tasks. I also focus on model deployment, ensuring scalability and efficiency in real-world applications. This role allows me to collaborate with the engineering team to integrate AI solutions into production-ready systems.

Junior Data Engineer at TechScope

New York (Remote)

December 2024 – May 2024

As a Data Engineer, I design and optimize data pipelines for efficient processing and storage. I am working with large datasets, implementing ETL workflows, and ensuring data accuracy. My role involves using databases, data visualization tools, and automation tools to streamline data operations. I am also collaborating with data scientists and analysts to improve data access and performance.

PROJECTS

AI-Based Recruitment System (SaaS Application)

August 2025

Contributed to the development of a recruitment platform with CV classification, CV-JD matching, and automated quiz generation, focusing on Generative AI integration and backend development to enable data-driven hiring decisions

Tech Stack: FastAPI (backend), PostgreSQL, SQLAlchemy, LangChain, RAG.

Fake News Detection Chatbot

August 2025

Developed a chatbot where users input headlines to verify authenticity, leveraging fine-tuning and RAG on OpenAI's GPT-4 via API integration for accurate fake/real classification.

Tech Stack: React (frontend), Node.js (backend), OpenAI API, Custom Fine-tuning

Tweet Classification and Analysis System

January 2025

Developed a pipeline to fetch tweets via the Twitter API, classify them into five categories using LLMs integrated with LangChain, and generate daily analysis summaries.

Tech Stack: FastAPI (backend), Firebase Realtime Database (storage), HTML/CSS (frontend), Twitter API, LangChain

Brain Tumor Detection System

November 2024

Implemented a deep learning solution for brain tumor detection by comparing CNN, MLP, and VGG16 models on a Kaggle dataset, applying image preprocessing to improve accuracy and evaluation metrics.

Tech Stack: Python, TensorFlow/Keras, NumPy, Matplotlib, OpenCV.

CERTIFICATIONS

1. Google Advanced Data Analytics Specialization – Google
2. IBM Generative AI Engineering Specialization – IBM
3. Generative AI Engineering with LLMs Specialization – IBM
4. Front-End Development Specialization - Meta
5. The Nuts and Bolts of Machine Learning – Google
6. Introduction to Deep Learning & Neural Networks with Keras– IBM
7. Supervised Machine Learning: Regression and Classification – Stanford
8. Build Basic Generative Adversarial Networks (GANs) – DeepLearning.AI
9. Deep Learning with PyTorch: Generative Adversarial Networks – Coursera Project Network
10. Foundations: Data, Data, Everywhere – Google
11. Regression Analysis: Simplify Complex Data Relationships– Google
12. Google Advanced Data Analytics Capstone– Google
13. Foundations of Data Science– Google