

# Sultan Mehmood

## Machine Learning Engineer

Islamabad Pakistan | +92 3079911776 | sultann.pk@gmail.com | <https://www.linkedin.com/in/sultannx/> | [github.com/sultann-ai](https://github.com/sultann-ai)

### EDUCATION

#### National University of Technology Islamabad

Bachelor of Science in Artificial Intelligence (BS AI) 7<sup>th</sup> 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.

August 2025

#### Fake News Detection Chatbot

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