ZAHEER KHAN

AI/ML Engineer | Data Scientist

Manzoor Colony, Karachi, Pakistan

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EDUCATION

Federal Urdu University (FUUAST) <div align="right">Jan 2022 – Dec 2025</div>
Bachelor of Science in Statistics <div align="right">*Karachi, Pakistan*</div>

Steps College <div align="right">Aug 2019 – Jun 2021</div>
Intermediate in Computer Science <div align="right">*Rawalpindi, Pakistan*</div>

TECHNICAL SKILLS

Programming: Python, JavaScript
Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, FastAPI, Flask, React.js
Domains: Machine Learning, Deep Learning, NLP, Computer Vision, LLM Integration (GPT, LLaMA 3, Gemini)
Tools & Platforms: Git, Google Colab, Kaggle, Vercel, Render, Hugging Face
Web Technologies: React, TypeScript, Tailwind (Frontend Integration)
Soft Skills: Problem Solving, Collaboration, Adaptability, Communication

PROFESSIONAL EXPERIENCE

S.M.I.T <div align="right">Jul 2025 – Present</div>
Data Scientist & AI Engineer <div align="right">*Karachi, Pakistan*</div>

- Developed and deployed AI-based web apps (Chatbot, Code Analyzer, Pneumonia Detector) using FastAPI, Flask, and Hugging Face models.
- Implemented RAG-based chatbot, LLM integrations (GPT, LLaMA 3, Gemini), and deep learning models for NLP & CV tasks.
- Built and optimized REST APIs, managed front-end deployment on Vercel, and maintained code quality via GitHub.
- Applied machine learning workflows, model evaluation, and visualization using Python, TensorFlow, and Pandas.

PROJECTS

Customer Support Chatbot (RAG + FastAPI) ↗ 🔗

- Developed an **AI-powered customer support chatbot** using Retrieval-Augmented Generation (RAG) with Hugging Face models and ChromaDB
- Created a robust **FastAPI backend** and a responsive front-end (React, Tailwind) with user/bot avatars and animations.
- Implemented **session-based memory** for context-aware conversations and enhanced prompt optimization.
- Tech Stack: **Python, FastAPI, Hugging Face, VectorDB, React, Tailwind**.

Pneumonia Identification from Chest X-ray Images ↗ 🔗

- Built a web-based system for pneumonia detection from X-ray images using a CNN model with 85% accuracy.
- Enabled differentiation between bacterial and viral pneumonia for enhanced diagnostic insight.
- Streamlined prototype for efficient automated medical image analysis.

Code Analyzer ↗ 🔗

- Developed an AI-powered **Code Analyzer** using **CodeBERT** and **Pylint** to evaluate code quality and logic.
- Built an interactive **Streamlit frontend** for real-time code analysis and automated feedback visualization.
- Integrated model-driven assessment and linting to identify syntax issues, logical errors, and maintainability insights.

Movie Recommender System ↗ 🔗

- Developed a personalized movie recommendation system using collaborative filtering.
- Processed datasets and trained models using Python, Pandas, and Scikit-learn.

More Projects: 🌐 zaheer-portfolio-786.vercel.app

CERTIFICATIONS

Data Scientist – S.M.I.T <div align="right">Nov 2023 – Mar 2025</div>

- Mastered Python, Pandas, ML algorithms, deep learning (CNN, RNN), and NLP with hands-on experience.

MERN Stack Developer – Jawan Pakistan <div align="right">Jan 2022 – Dec 2022</div>

- Proficient in MongoDB, Express.js, React, and Node.js; built full-stack web apps with responsive UI.