SHAHMEER KAMRAN

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Profile

I am a **Software Engineer specializing in AI**, skilled in **fine-tuning LLMs**, **RAG**, and **LangChain** for production-ready solutions. Proficient in **Python**, **TensorFlow**, **PyTorch**, and **Scikit-Learn**, I focus on **API design**, **cloud deployment**, and integrating AI models using **FastAPI** and **MERN stack**. Experienced with **version control**, **testing**, and **CI/CD**, I ensure scalable, high-performance AI applications.

Professional Experience

ByteSight Pvt Ltd 🔗   islamabad
MERN Stack developer
- Developed and styled responsive front-end interfaces using React.js and Tailwind CSS.
- Integrated APIs and enhanced user experience with dynamic, interactive components.
- Collaborated with team to maintain code quality and implement UI improvements.

RASTA TECH   remote
AI Engineer intern
- Improved ML/DL models to enhance chatbot responses and user experience.
- Preprocessed conversational data, extracted relevant features (like intent, sentiment), and evaluated model performance.
- Built and fine-tuned models using PyTorch and scikit-learn for tasks like intent classification and response generation

Education

COMSATS University
Bachelor's in Computer Science

Certificates

- AI for Public Health 🔗

- Fundamentals of AI Agents Using RAG and LangChain 🔗

- Generative AI Advance Fine-Tuning for LLMs 🔗

- Generative AI and LLMs: Architecture and Data Preparation 🔗

Skills

Languages:	**AI & Machine Learning:**	**Web Development:**	**Data Analysis & Engineering:**
Python, JavaScript, C++, Java, SQL, PHP	LLM Fine-Tuning, RAG, LangChain, Prompt Engineering, Hugging Face, PyTorch, TensorFlow	HTML/CSS, React.js, Node.js, Express.js, REST APIs, MongoDB,Git, GitHub, Postman	Data Manipulation, Feature Engineering, Pandas, SQL

Projects

MarkVista – AI-Powered Crypto Prediction & Risk Management Platform
Final Year Project | FastAPI, Python, ML Models, React JS, MySQL, Figma, CoinGecko API, Postman

- **Developed** ML prediction models for crypto price prediction with real-time market data
- **Engineered** user-configurable risk profiles to manage portfolio risk dynamically
- **Integrated** broker APIs for automated trading execution with responsive risk controls
- **Visualized** analytics through a dynamic portfolio dashboard
- **Built** secure infrastructure and simulated community Q&A
- **Streamlined** user workflows into a unified interface

Air Quality Analysis & Modeling – Bogotá Pollution Data
Python, Pandas, NumPy, Scikit-learn, Keras, Matplotlib, Seaborn, GeoPandas

- **Cleaned** multiyear pollution, weather & location data from public sources
- **Analyzed** trends using **correlation**, **time series**, and **geospatial** visualizations
- **Imputed** missing values using **linear interpolation**, **KNN**, and **neural networks**; evaluated with **MAE/RMSE**
- Developed a **hybrid model** combining **KNN** and **neural networks** for robust pollution estimation
- **Trained** and validated models using **cross-validation** at under-monitored sites
- **Visualized** results with **GeoPandas**, **Folium**, and a **Jupyter dashboard**

Private Document Summarization with RAG, LangChain, and LLMs
IBM Watsonx.ai, LangChain, Hugging Face Embeddings, Chroma DB, LLMs, Python

RAG-based Content Evaluation for Children's Media
PyTorch, BERT, Hugging Face, Scikit-learn, Matplotlib

Cold Email Generator for Business Outreach
Groq API, LangChain, Streamlit, Chroma DB, Python (Llama-3.1-8B, Web Scraping, JSON Parsing)