# Muhammad Umar

Malaysia | [your email] | [your number]
LinkedIn: www.linkedin.com/in/muhammad-umar-3b7b7b378 | GitHub: github.com/ProgrammerRez |
Hugging Face Spaces: [your API/demo link]

## Professional Summary

Junior Machine Learning & Python Developer specializing in Data Science, LLM-powered agents, and ML deployments. Hands-on experience in feature engineering, model evaluation, and agentic workflows with LangChain. Built and deployed 7+ projects — including prediction models, document analyzers, AI agents, and APIs on Hugging Face Spaces. Seeking Data Scientist / ML Engineer roles where I can leverage problem-solving, deployment, and Agentic AI expertise.

## Core Skills

**Languages:** Python (Expert), SQL (Intermediate)
**Libraries & Frameworks:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, NLTK, LangChain, HuggingFace Transformers
**ML Techniques:** Regression, Classification, Feature Engineering, Cross-validation, Model Evaluation (MAE, RMSE), Hyperparameter Tuning, SHAP Interpretability
**Deployment & Tools:** Streamlit, Hugging Face Spaces, Gradio, FastAPI, Git/GitHub, Docker (basic), REST API
**Other:** Data Visualization, RAG pipelines, Agentic Workflows, NLP

## Key Projects

### Agentic AI Assistant (LangChain + Groq + DuckDuckGo/Arxiv Search) (2025)
Developed an Agentic AI research assistant using LangChain agents and external tool integrations. Designed pipelines for retrieval, reasoning, summarization, powered by ChatGroq. Deployed interactive Streamlit app for live academic research.

### RAG AI Bot (PDF & Docs QA System) (2025)
Built a Retrieval-Augmented Generation (RAG) chatbot for document Q&A.; Integrated Hugging Face embeddings + Vector DB for semantic search. Delivered contextual responses with LangChain pipeline, deployed on Streamlit.

### AI Agents Search Engine (2025)
Developed multi-tool search platform with LangChain agents. Aggregates results from Arxiv, Wikipedia, and Web search with reasoning. Accessible as a Streamlit Cloud app for research use cases.

### Used Car Price Prediction Chatbot (2025)
Predicted car resale values using regression models and feature engineering. Reduced MAE by ~12–18% vs baseline models. Deployed chatbot on Streamlit for instant pricing.

### Real Estate Price Prediction Model (2025)
Built ML pipeline for property price forecasting. Reduced RMSE by 10–15% after hyperparameter tuning. Added SHAP explainability for transparency.

### File Analyzing Chatbot (2024)
Designed NLP-based chatbot for PDF summarization & keyword extraction. Implemented preprocessing pipeline with NLTK. Deployed as Streamlit chatbot for faster document review.

### Deployed API on Hugging Face Spaces (2024)
Wrapped ML model in FastAPI/Gradio and hosted on Hugging Face Spaces. Added model card + usage examples for reproducibility. Showcased ability to deliver ML solutions as scalable APIs.

## Education

Data Science Degree — Analytix Camp (2025)