

Umar Javed

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

Summary

GenAI Engineer & Python Developer specializing in Agentic AI and RAG architectures. Proficient in intermediate Machine Learning workflows, including EDA, data preprocessing and predictive modeling. Experienced in building end-to-end AI applications using LangChain, LangGraph and FastAPI.

Projects

AI-Powered Learning Assistant (Final Year Project)

- **Project:** Automated educational tool generating concise summaries and notes from video content.
- **Problem:** Streamlines manual note-taking processes to improve student learning efficiency.
- **Tech Stack:** Deepseek, Pegasus, Whisper, Faiss Indexing, Django, HTML, CSS, JS.

AI Chat Assistant – RAG Based Chrome Extension

- **Project:** Context-aware extension featuring automated data extraction from active tabs for real-time, webpage-specific AI interaction.
- **Problem:** Eliminates the tedious process of manually copy-pasting data into external AI tools to interpret complex concepts or extract insights from raw data.
- **Tech Stack:** LangChain, Redis, FastAPI, RAG pipeline and Google Gemini.

Real Estate Price Prediction (ML Anchor)

- **Project:** End-to-end machine learning pipeline for property price forecasting in Pakistan.
- **Problem:** Addresses market price unreliability through rigorous EDA and predictive modeling.
- **Tech Stack:** XGBoost, Scikit-learn, Pandas, NumPy, Seaborn for achieving r^2 score of 0.83.

AI Consultancy Chatbot

- **Project:** Digital assistant providing automated university admission guidance and document support.
- **Problem:** Centralizes fragmented consultancy services into a scalable, multi-domain assistant.
- **Tech Stack:** LangChain, FastAPI, and Google Gemini.

Skills

• Generative AI	LangChain, LangGraph, Vector Storage (Faiss, Redis, ChormaDB)
• Machine Learning	Pandas, Numpy, Seaborn, Scikit-learn, Predictive Modeling
• Development	Python, FastAPI, Docker, Git & GitHub

Education

UNIVERSITY OF GUJRAT

Bachelor of Science in Computer Science (2021 – 2025)

CGPA - 3.45/4.00

Certification

• Python Data Associate – DataCamp	verify certificate
• Associate Data Scientist – DataCamp	verify certificate
• Git & GitHub (Version Control) – Meta (Coursera)	verify certificate
• What is Data science – IBM (Coursera)	verify certificate