

# Umar Javed

Sialkot, Pakistan, (+92) 3094780810 | [ranaumarranaumar705@gmail.com](mailto:ranaumarranaumar705@gmail.com)

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

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## 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.

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## 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.
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## Skills

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|---------------------------|--|
| • <b>Generative AI</b>    | LangChain, LngGraph, Vector Storage (Faiss, Redis, ChormaDB) |
| • <b>Machine Learning</b> | Pandas, Numpy, Seaborn, Scikit-learn, Predictive Modeling    |
| • <b>Development</b>      | Python, FastAPI, Docker, Git & GitHub                        |
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## Education

### UNIVERSITY OF GUJRAT

Bachelor of Science in Computer Science (2021 – 2025)

CGPA - 3.45/4.00

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## Certification

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| • Python Data Associate – DataCamp                 | <a href="#">verify certificate</a> |
| • Associate Data Scientist – DataCamp              | <a href="#">verify certificate</a> |
| • Git & GitHub (Version Control) – Meta (Coursera) | <a href="#">verify certificate</a> |
| • What is Data science – IBM (Coursera)            | <a href="#">verify certificate</a> |