

Hafza Batool

Student of BS Mathematics

BS Mathematics student with passion about applying mathematical models and data tools to solve real-world problems. I worked on building RAG, LLM-integrated systems during my Final Project where I developed RAG system using ChromaDB. I am Committed to continuous learning and professional growth.

✉ hafzabatool91@gmail.com 📞 03305377211 🌐 hafza-batool

EDUCATION

Bachelor of Science in Mathematics

Namal University Mianwali

Sep 2022 - Present | Mianwali, Pakistan

Key Courses

- Probability and Statistics
- Calculus
- Linear Algebra
- Machine learning
- Introduction to Programming(python)

Data Analytics Bootcamp (Online)

IEC – Institute of Emerging Careers

Aug 2025 - Feb 2026

Key Courses

- MS Excel
- My SQL
- Power BI
- Business Intelligence

EXPERIENCE

Teacher Assistant

Namal University Mianwali

Oct 2025 - May 2026

Tasks

- Assisting in undergraduate courses including Topics in Geometry and Quantitative Reasoning.
- My Responsibilities include maintenance of course folders and evaluating assignments and Quizzes.

Contact Person

Dr. Awais Shaukat | awais.shaukat@namal.edu.pk

Volunteer Lab Assistant

Namal University Mianwali

Feb 2023 - Jul 2024

Tasks

- Provided one-on-one assistance to students in understanding procedures
- Assisted in organizing practical sessions and ensuring smooth workflow

Contact

Dr. Zia ur Rehman | zia.rehman@namal.edu.pk

SKILLS

prompt engineering My SQL Power BI

MS Office (Word, Excel, PowerPoint)

Python(Pandas, NumPy, Scikit-learn) Leadership

Fast learner with a problem-solving mindset

PROJECTS

RAG-Based Explainable CV-Job Matching System

FYP | Namal University Mianwali

Oct 2025 - Present

Tasks / Achievements

- Built a fully custom RAG pipeline (no LangChain) for semantic CV-JD matching
- Designed ablation study comparing cosine, dotproduct, and L2 similarity
- Introduced custom RES metric for joint evaluation of retrieval efficiency and quality
- Deployed via Streamlit with interpretable candidate ranking and match explanations

LANGUAGES

English

Professional Working Proficiency

Urdu

Native or Bilingual Proficiency