Masoom Tariq

SOFTWARE DEVELOPER

PROFESSIONAL SUMMARY

Analytical Computer Science student with strong skills in building modern backend architectures. Proficient in Python, Fast Api, RAG pipelines and Agentic AI Frameworks. Hands-on experience in Web Based Projects using AI Driven Development and Agentic AI systems with Lang Chain, Lang Graph, Vector DBs, LLMs to Develop Intelligent Workflows. Combining academic fundamentals with hands-on experience in Agentic AI, Rag systems and AI-driven Projects.

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EDUCATION

Bachelor of Science in Computer Science | March 2025 – March 2029
Virtual University of Pakistan ● CGPA: 3.75

CERTIFICATIONS & ONLINE LEARNING

- **PYTHON FOR DATA SCIENCE, AI & DEVELOPMENT — COURSERA**
  Completed foundational understanding to proficiency in python libraries such as pandas and numpy as well as python development coursework covering data structures, web scraping, and database management.

- **DEVOPS AND SOFTWARE ENGINEERING WORKFLOWS — COURSERA**
  Learned knowledge of devops practices, tools and technologies. Hands on experience in devops methodologies including agile development, behavior and test-driven development, performed continuous integration and delivery (CI/CD)

- **IBM AI ENGINEERING PROFESSIONAL CERTIFICATE — COURSERA**
  Learned the fundamentals of ai, machine learning, gen ai. Gained hands on experience to build the generative ai applications and ai agents using RAG.

PROJECTS

Interactive Book with integrated rag Chatbot
Using Fast api, Docusaurus, Google Gemini, Qdrant. Part of the PIAIC Hackathon.

- Developed an interactive textbook platform for robotics using Docusaurus and FastAPI. Integrated a RAG-based AI chatbot using Google Gemini and Qdrant to provide real-time, context-aware learning assistance and semantic search. Built a seamless React interface for conversational tutoring and automated content explanations.

Document Q/A - AI-Powered Document Assistant
Using Streamlit, LangChain, LangGraph, Google Gemini, Groq Llama

- Developed a RAG-based application for interactive querying of PDFs and text files using LangChain and Google Generative AI embeddings. Built a multi-agent workflow with LangGraph to intelligently route queries based on context relevance and document summaries. Integrated MultiQueryRetriever and hybrid model execution (Gemini & LLaMA) to deliver high-accuracy, context-aware responses while tracking performance via LangSmith.

Urdu Voice Chatbot

Using Streamlit, Google Generative AI, Speech Recognition

- Built a bilingual voice chatbot application enabling Urdu users to interact via voice input and audio responses. Integrated Google Gemini for context-aware responses, real-time speech recognition for Urdu language input, and gTTS for natural voice synthesis. Implemented conversation history tracking with comprehensive error handling for enhanced user experience.

SKILLS

Stacks & Technologies: Python, HTML, CSS, RAG, AI Native Development
Concepts: Object-Oriented Programming (OOP), CRUD Operations, Command-Line Interfaces (CLI)
AI & Frameworks: OpenAI Agent SDK, FastAPi, Langchain, LangGraph