

Ashhad Ahmed Kamran

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Education

Dawood University of Engineering and Technology

BS in Artificial Intelligence

Karachi, Pakistan
Oct 2022 – Present

- Grade: 3.93/4.0 GPA (Highest in the department)
- **Relevant Coursework:** C, Python, OOP, Assembly, DSA, AI/ML, Embedded Systems, Neural Networks, Predictive Analytics.

Sapienza Università di Roma

Applied Computer Science and Artificial Intelligence (BS) — Exchange Semester

Rome, Italy
Mar 2025 – Jul 2025

- Secured a scholarship as an exchange student.
 - **Relevant Coursework:** ML, Agentic AI, Data Management and Analysis, Computer Vision Lab.
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Work Experience

Onestop Vendors

AI Engineer

Karachi, Pakistan
Oct 2024 – Jan 2025

- Built next-generation LLM voice/chat AI platforms using RAG architecture.
- Directed AI product development, integrating vector databases (Qdrant, FAISS) and real-time STT/TTS pipelines.
- **Skills:** LLM Architecture, RAG, LangChain, Deepgram TTS/STT, Twilio, PyTorch, OpenAI GPT-4, AWS/Azure.

Arcana Info (Pvt.) Ltd

AI Intern

Karachi, Pakistan
Aug 2024 – Sep 2024

- Architected a BI system using IBM Analytics to transform raw data into strategic insights.
 - Developed an NLP-based carpooling mobile app using IBM NLU and deployed an ML model on IBM Watson AI.
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Projects

React Agent based Personal Assistant

- An autonomous agent that parses incoming emails to identify meeting requests, drafts Google Meet events, and uses a human-in-the-loop system for approvals.
- **Tech Stack:** LangChain, LangGraph, Docker, Docker Compose, OpenAI GPT-4o mini, Google APIs.

Multimodal Visual Search Engine

- Text-or-image-based retrieval system using a contrastive embedding space built with ResNet18 and GRU encoders.
- **Tech Stack:** Python, PyTorch, Streamlit, Pandas, Scikit-learn.

AI-Powered Voice & Sales Automation System

- Automated voice-based sales agent handling calls end-to-end with real-time transcription, intent recognition, LLM-driven reasoning, and IVR routing.
- **Tech Stack:** Deepgram STT, Whisper TTS, Twilio Voice API, IVR System, LangChain, Python.

RAG-based Chatbot

- Built a RAG chatbot using FAISS and Azure Cosmos DB to deliver grounded, verifiable answers with minimal hallucinations.
- **Tech Stack:** Python, LangChain, FAISS, Azure Cosmos DB, OpenAI LLMs.

AI Data Analysis Agent

- A data-analysis agent for Discord/Slack where users upload datasets and ask questions. The LLM analyzes the data, generates insights, and returns plots and summaries.
- **Tech Stack:** Python, Pandas, Matplotlib, LangChain, OpenAI LLMs, Discord/Slack API.

Certifications

- **Deep Learning Specialization** — Stanford Online (Coursera)
- **Machine Learning Specialization** — Stanford Online (Coursera)