

Adnan Rasool

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Professional Summary

AI/ML Engineer with hands-on experience building and managing production RAG systems using Azure AI Services and OpenAI API. Expertise in machine learning, deep learning, LLM applications, prompt engineering, and retrieval pipeline optimization. Strong foundation in Python and deploying practical AI solutions.

Work Experience

L1 Quality Analyst

Jul 2025 – Jan 2026

ARS Portable Agnostic Solutions Pvt. Ltd.

- Designed and deployed an internal RAG system using Azure Cognitive Search, Azure OpenAI, and prompt-flow pipelines enabling intelligent document retrieval and Q&A capabilities
- Managed end-to-end RAG operations including prompt engineering, retrieval optimization, and response quality validation
- Developed retrieval pipelines with semantic search using vector embeddings and fine-tuned query prompts for improved accuracy
- Conducted quality assurance testing across AI-powered systems and collaborated with teams on automation improvements

Projects

VideoQueryAI: Interactive Video Questioning Using Qwen2-VL-2B

- Built interactive video understanding system enabling natural-language queries over video frames using Qwen2-VL-2B-Instruct
- Implemented frame extraction, temporal reasoning, and question-answering for educational use cases

Education

B.Tech in Information Technology

2021 – 2025

Central University of Kashmir

Certifications

- Machine Learning Specialization** — Deeplearning.AI & Stanford (2024) [\[Link\]](#)
- Machine Learning A-Z** — Udemy (2023) [\[Link\]](#)
- Machine Learning Pipelines with Azure ML Studio** — Microsoft Azure (2023) [\[Link\]](#)

Technical Skills

Programming: Python

AI/ML: Machine Learning, Deep Learning, RAG Systems, LLMs, NLP, Computer Vision, Prompt Engineering

Cloud & Tools: Azure AI Services, Azure OpenAI

Frameworks: TensorFlow, PyTorch, Scikit-learn, Streamlit, LangChain

Specializations: Retrieval Augmented Generation, Vector Embeddings, Semantic Search