

# 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

<b>Programming:</b>	Python
<b>AI/ML:</b>	Machine Learning, Deep Learning, RAG Systems, LLMs, NLP, Computer Vision, Prompt Engineering
<b>Cloud &amp; Tools:</b>	Azure AI Services, Azure OpenAI
<b>Frameworks:</b>	TensorFlow, PyTorch, Scikit-learn, Streamlit, LangChain
<b>Specializations:</b>	Retrieval Augmented Generation, Vector Embeddings, Semantic Search