



# JAWAD AHMED

GENAI / MACHINE LEARNING ENGINEER



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Remote



LinkedIn Profile



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## EDUCATION

**BS Information Technology**  
University of Sargodha

Graduating Sep 2026 (CGPA 3.70)

## CERTIFICATIONS

- Certified GenAI Application Developer
- ML/AI Engineer Certificate
- Code Fusion Hackathon Winner (2025)

## TECH CATEGORIES

- GenAI: RAG, LLaMA
- Data: Vector DBs, SQL
- Vision: CNNs, Keras

## SUMMARY STATEMENT

Forward-thinking Generative AI & Machine Learning Engineer specialized in building scalable LLM solutions and end-to-end ML pipelines. Expert in RAG architectures, Vector Search, and Semantic Engine Optimization. High-performing IT student (CGPA 3.70) with a proven ability to deliver responsible, secure, and cost-effective AI solutions regarding enterprise-grade digital transformations.

## CORE QUALIFICATIONS

- Advanced RAG Architecture & Agentic Workflows
- Vector Databases (Pinecone, ChromaDB) & Embeddings
- Computer Vision (CNNs, Image Classification)
- Large Language Models & Prompt Engineering
- Python, FastAPI, RESTful Microservices Design
- MLOps (CI/CD, Docker, Experiment Tracking)

## PROJECT EXPERIENCE

**Enterprise Knowledge Manager AI Agent**  
*RAG Architecture / FastAPI / Vector Search*

- Developed an autonomous RAG-based agent to process unstructured PDFs and documents for high-precision information retrieval.
- Integrated vector search pipelines with FastAPI to deliver scalable, low-latency AI responses (<150ms).

**GenAI-SEO: Generative Engine Optimizer**  
*LLM Optimization / Semantic Search*

- Designed a novel framework to optimize digital content for AI-driven search (GEO), improving citation probability in LLM outputs.
- Utilized semantic search strategies to align enterprise data with GenAI response windows.

**Environmental & Agricultural Diagnostics**  
*Computer Vision / MLOps / CNN*

- Deployed CNN models for Smog/Fog classification and Crop Disease detection (Tomato/Wheat) using Deep Learning.
- Implemented full experimentation tracking and model evaluation cycles to ensure production-ready accuracy.