SYED ARHUM HUSSAIN

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SUMMARY

AI/ML Engineer specializing in building and deploying real-world intelligent systems. Expert in fine-tuning LLMs, developing Voice Agents, and engineering custom Voice AMD systems. I deliver end-to-end solutions by integrating advanced AI (OCR, Voice, NLP) with high-performance backends built in Go (Golang), Python (FastAPI/Django), and Node.js.

WORK EXPERIENCE

1) Arc Inventador, Machine Learning Engineer   **OCT 2025- Working**

- AI & Voice Engineering: Engineered and fine-tuned LLMs and OCR models with 95% accuracy, alongside developing end-to-end Voice Agents and Voice AMD systems optimized for high-concurrency real-time processing.
- Advanced RAG Architecture: Architected Retrieval-Augmented Generation (RAG) systems using LangChain, improving retrieval accuracy to 90%+ and reducing response latency by 40% through optimized semantic search.
- Full-Stack Deployment & MLOps: Built and deployed resilient backends using Go (Golang) and FastAPI, streamlining the MLOps lifecycle with Docker and Kubeflow to reduce deployment cycles by 50%.

2) The Flash Review, Machine Learning Engineer   **(Jun 2024 - Sep 2025)**

- AI & RAG Implementation: Engineered LangChain RAG pipelines using FAISS/ChromaDB to process 10K+ daily queries, achieving a 90% resolution improvement via OpenAI integration.
- High-Performance Backends: Developed scalable FastAPI and Pydantic systems, reducing response latency by 65% while streamlining developer workflows with Swagger UI.
- Secure Microservices: Built production-ready Django REST microservices with JWT/RBAC authentication, resulting in an 85% reduction in unauthorized access incidents.

EDUCATION

Bachelor of Science in Computer Science   **Jul 2021 - Jul 2025**

DHA Suffa University, Karachi

SKILLS

Python • Node.js/Expresses.js • FASTAPI • Django REST Framework • Pytorch • RAG • LangChain • PostgreSQL • SQL • Docker • Kubernetes • TensorFlow • Next.js• GitLab CI/CD • DataBricks • GCP • AWS