

MOHAMMED YASEEN AHMED KHAN

AI / Platform Engineer | Agentic Systems & Enterprise AI Infrastructure

Hyderabad, India | Open to Relocation

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SUMMARY

AI / Platform Engineer building **production-grade scalable agentic AI systems** and robust backend infrastructure. Experienced in designing **RAG pipelines**, **FastAPI-based inference services**, **vector retrieval (FAISS)**, and **multi-agent orchestration workflows**. Contributor to **LangChain (merged PRs)** with exposure to strict OSS CI standards. Focused on **modular architecture**, **API-led systems**, **production monitoring**, and **enterprise-grade AI deployment**.

EXPERIENCE

AI/ML Engineer (Junior)

Five Seven IT Solutions | Sept 2024 – Feb 2025

- Designed and maintained backend-driven ML pipelines supporting enterprise analytics and AI workloads
- Developed and tested **REST APIs using FastAPI** for scalable model inference and structured data access
- Improved preprocessing efficiency by **~35%** through pipeline optimization
- Performed feature extraction and validation using **SQL-based workflows**
- Contributed to **deployment-ready AI components** with emphasis on **API-first architecture**, reliability, and modular system design

PROJECTS

Enterprise Document Question Answering System (RAG)

- Built a **Retrieval-Augmented Generation (RAG)** system handling **500+ enterprise documents**
- Implemented **semantic chunking**, **embeddings**, and **FAISS-based vector search**
- Reduced retrieval latency by **~20–30%** through optimized embedding and indexing strategy
- Designed **FastAPI backend service** delivering structured, source-grounded responses
- Implemented **audit-friendly logging** for enterprise knowledge traceability

Agentic Customer Success Bot for SaaS Platforms

- Designed **agent-based AI system** supporting **5+ intent categories** with dynamic routing
- Engineered **orchestration layer** coordinating agents, tool usage, and API calls
- Developed modular **RAG retrieval component** using embeddings and FAISS
- Improved workflow automation efficiency by **~30% (internal benchmark testing)**
- Focused on **scalable AI workflow design**, modular architecture, and reliability

Production-Grade ML Monitoring System for Employee Attrition

- Built end-to-end **ML monitoring pipeline** covering **15+ input features**
- Implemented **PSI & KS-based drift detection** to flag early model degradation
- Developed **FastAPI inference service** logging real-time prediction and feature metrics
- Designed **retraining-readiness logic** supporting full ML lifecycle management
- Emphasized **production reliability**, monitoring, and system observability
- Evaluated model performance using accuracy, precision-recall metrics prior to deployment

Open Source Contributor – LangChain (Merged PRs)

- Contributed to the **langchain_classic.retrievers** module in **LangChain**.
- Added defensive validation logic to **EnsembleRetriever**, improving configuration robustness.
- Improved documentation clarity for **MultiVectorRetriever**.
- Worked within strict CI constraints (Ruff linting, formatting, multi-version testing).
- Successfully navigated review process; PRs merged into master branch.
- GitHub: github.com/MohammedYaseenAhmedKhan

TECHNICAL SKILLS

Programming & Backend: Python, SQL, FastAPI, REST APIs

AI & ML Systems: ML Pipelines, Feature Engineering, Model Evaluation, **RAG**, Embeddings, FAISS, **Agent-Based Systems**

Architecture & Systems: **AI Workflow Design**, **Agent Orchestration**, **API-Led Systems**, **Production Monitoring**, Modular Architecture

Enterprise & Deployment: Docker (Basics), CI/CD (Basics), Monitoring Concepts, Cloud Exposure: AWS (EC2, IAM – foundational)

Tools: Git, GitHub, Linux, Streamlit

EDUCATION

Bachelor of Engineering in Artificial Intelligence & Machine Learning Poojya Doddappa Appa College of Engineering | 2021 – 2025

Professional Program – Data Science & Artificial Intelligence (Ongoing) | Imarticus Learning

CERTIFICATIONS

- **Oracle Cloud Infrastructure (OCI) – AI Foundations Associate** | Oracle University
- **Cloud Computing (NPTEL Certified)**
- **Introduction to IoT** | Cisco Networking Academy