

SYED ABDUL KAREEM AHMED

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EDUCATION

Bachelor of Engineering – Computer Science (AI and ML)
Osmania University, Hyderabad, India

Sep 2021 – Jul 2025
CGPA: 8.44 / 10

Higher Secondary Certificate (PCM)
Narayana Junior College, Hyderabad, India

Jun 2019 – Jul 2021
97.8%

PROFESSIONAL EXPERIENCE

Agentic AI Developer and Team Lead – IT Automation LLC, United States (Remote) | Full-Time, Multi-Agent Systems, RAG, LangGraph
Feb 2026 – Present

- Leading a team of 2 engineers to design and develop **autonomous agentic AI systems** using LLMs, LangGraph orchestration, RAG pipelines, and FastAPI services across three production-grade applications.
- Built an **Agentic Legal Case Management System** with LLaMA 7B-powered automated case summarisation, context-aware RAG chatbot for user and admin assistance, and strict Role-Based Access Control (RBAC).
- Developed an **Agentic Loan Origination System** using LangGraph agents to automate manual underwriting: credit report fetching, risk analysis, and underwriting memo drafting within **under 1 second** latency.
- Built a **Service Request Management App** with agentic case routing to relevant departments, Groq-powered AI chatbot, and agentic duplicate detection – improving public safety request handling efficiency.
- Implemented **RAG pipelines** with vector databases for document understanding, structured and unstructured data extraction, and OCR-based ingestion across all three platforms.

Software Developer – IHub-Data, IIIT-Hyderabad | Research Under Publication, Neurotechnology
Aug 2025 – Jan 2026

- Developed a **real-time EEG acquisition and signal processing system** using OpenBCI Cyton+Daisy with Python-based pipelines supporting SSVEP, Motor Imagery (MI), and P300 neural paradigms.
- Optimised **low-latency inference pipelines** and engineered brainwave visualisation tools in collaboration with research engineers, advancing neurotechnology for autonomous human-machine interaction.

KEY PROJECTS

Restaurant Sales AI Agent [GitHub] | LangChain, FAISS, Llama 3.3 70B, FastAPI, Streamlit
Nov 2025

- Indexed 250+ sales records using FAISS vector database and sentence transformers; integrated **Groq-hosted Llama 3.3 70B** with data-grounded prompts for hallucination-free structured query resolution via Streamlit UI.

Agentic Travel Planner [GitHub] | LangGraph, Multi-Agent Orchestration, Gemini LLM, Python
Sep 2025

- Orchestrated **parallel multi-agent execution** with shared state management across planning, weather, and POI agents; reduced latency by 35% with real-time API integration and fault-tolerant fallbacks (100% success rate).

IronBites – Anemia Detection System [GitHub] | React, Flask, FastAPI, ResNet50, Gemini 2.5 Pro
Apr 2025

- Engineered a full-stack healthcare app using ResNet50 for conjunctival image classification (**97% accuracy**); integrated Gemini 2.5 Pro chatbot with ML inference pipeline for real-time guidance, achieving <2s response time.

AeroGesture – Eye Gesture Virtual Mouse [GitHub] | OpenCV, Dlib, PyQt5, Python
Dec 2023

- Designed a hands-free accessibility system for motor-disabled users; achieved **80% eye-tracking accuracy** for full cursor control via OpenCV and Dlib facial landmark detection with a real-time PyQt5 interface.

TECHNICAL SKILLS

AI and Agents	Agentic AI, Multi-Agent Systems, LangChain, LangGraph, RAG, LLMs (OpenAI, Gemini, LLaMA, Groq), Prompt Engineering, Agent Reasoning
ML and DL	Deep Learning, NLP, Computer Vision, MLOps, Model Evaluation, Signal Processing, OCR, Document Understanding
Frameworks	FastAPI, Flask, TensorFlow, Keras, Scikit-learn, Streamlit, Pandas, NumPy, OpenCV, LangChain
Languages	Python (Advanced), SQL (Intermediate), Java (Basic)
Tools and Cloud	Git, GitHub, GCP, Docker, MySQL, Linux, Jupyter Notebook, VS Code, CursorAI, Postman
CS Fundamentals	DSA, OOP, DBMS, Vector Databases (FAISS, ChromaDB), Data Engineering, CI/CD, ML Pipelines

CERTIFICATIONS

- Oracle Certified Generative AI Professional**
Oracle | GenAI, LLMs, Prompt Engineering
- Machine Learning Professional Certificate**
Anaconda | ML Algorithms, Model Building, MLOps
- AI/ML/DL Techniques**
NIT Warangal | Deep Learning, Neural Networks
- Data Analysis with Python**
freeCodeCamp | Pandas, NumPy, Data Visualisation