

Sayed Afaq Ahmed

AI Engineer

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Summary

AI Engineer building production systems with LLMs, RAG pipelines, multi-agent architectures, and document intelligence. Skilled in scalable backend design, semantic search, and enterprise AI automation.

Experience

Clavis Technologies

May 2026 – Present

AI Engineer

- Leading development of an AI-powered Laytime Calculator that extracts and reconciles data from Statements of Facts (SOF), Charter Parties (CP), Notices of Readiness (NOR), and other maritime documents using LLM-based parsing pipelines.
- Designed multi-agent workflows for structured information extraction, timeline reconstruction, deduction analysis, and fully automated laytime, demurrage & despatch calculations — replacing a previously manual process.
- Architected the document ingestion layer with custom entity recognition, and cross-document reconciliation to handle real-world inconsistencies in maritime paperwork.

Elite Digital Technologies

Aug 2024 – May 2026

AI/ML Engineer (Full Stack)

- Built and deployed end-to-end AI systems using RAG pipelines, vector databases (pgvector, Chroma), LLMs, and multi-agent architectures serving enterprise clients.
- Developed document intelligence solutions combining OCR, layout analysis, semantic search, and AI-powered Q&A to automate extraction from unstructured business documents.
- Implemented Microsoft Agent Framework, Agent SDK, and A2A communication patterns to orchestrate complex multi-step enterprise workflow automation.

Projects

IUArchive

2024 – Present

- Built an AI companion platform for Integral University, officially recognized and adopted by the institution for student use.
- Developed a RAG-powered assistant that answers student queries using faculty-uploaded lecture notes and previous-year question papers, with semantic search over a growing knowledge base.
- Designed the ingestion pipeline, embedding strategy, and retrieval ranking to maximise answer relevance across heterogeneous document types.

Yara International School (Riyadh, Saudi Arabia)

2025

- Contracted to rebuild the institution’s web platform from scratch using Next.js (frontend) and FastAPI (backend), improving performance and maintainability.
- Developed a role-based administrative portal that enabled non-technical staff to manage content independently, significantly reducing operational overhead.

Education

Integral University, Lucknow

2021 – 2025

B.Tech Computer Science — Cloud Technology & Information Security

CGPA: **9.1/10** — **Silver Medalist**

Skills

Languages	Python, JavaScript
Frameworks	FastAPI, Flask, React.js, Next.js
AI / ML	LLMs, RAG, Multi-Agent Systems, MCP, AG-UI, Vector Databases, Semantic Search, Document Intelligence
Backend	REST API Design, Microservices, WebSockets, OAuth2, Celery
Tools & Infra	Git, Docker, Azure, AWS, OCR Pipelines, CI/CD, Redis

Achievements

- **Microsoft Azure AZ-900** Certified
- **Silver Medalist**, Integral University
- **Lead**, Google Developers Group on Campus, Integral University
- **Ex-Developer**, Google Developer Groups Lucknow (lucknow.dev)
- Identified and responsibly disclosed a security vulnerability in a university system