

Mohammed Aftab Ahamed

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Summary

AI Full-Stack Developer experienced in building end-to-end AI applications using **LLMs, Agentic AI, Hybrid RAG, LangGraph, FastAPI, React, Python, PostgreSQL, and Docker**. Skilled in developing and deploying full-stack AI platforms, with **Python automation experience at Nokia** for documentation validation.

Education

B.E. in Artificial Intelligence & Machine Learning | CGPA: 9.43
New Horizon College of Engineering | 2026

Bengaluru | Karnataka

Experience

Nokia — Student Intern
Aug 2025 – July 2026

- Developed a Python-based **automation tool**, reducing documentation validation time by **approximately 90%**.
- Automated validation workflows, processing 500+ pages across hundreds of documents in under **60 seconds**.
- Collaborated with **3+ R&D and QA teams** using **Git** in an Agile environment to develop, test, and integrate automation features.
- Optimized Python automation for reliable validation across **500+ documentation pages**.

Tech Stack: Python, Pandas, NumPy, OpenCV, Tesseract OCR, Pytesseract, PDFPlumber, Regex, OpenPyXL, XlsxWriter.

Projects

CyberShield AI – AI-Powered Cyber Threat Intelligence Platform (Agentic AI | Hybrid RAG) | [GitHub](#)

- Architecture:** Built a full-stack AI platform with **30+ REST APIs** using FastAPI, React, PostgreSQL, Docker, and JWT.
- AI:** Engineered a Hybrid RAG pipeline with **OpenAI LLMs, FAISS, and embeddings** over **15K+** documents, achieving **90%** retrieval and **95%** detection accuracy.
- Impact:** Reduced vulnerability triage by **75%**, security analysis by **80%**.

AI Job Application Copilot (Multi-Agent | Hybrid RAG | ML) | [GitHub](#)

- Multi-Agent System:** Designed a **5-agent LangGraph** workflow with FastAPI, React, PostgreSQL, Docker, and AWS for AI-powered job application automation.
- Intelligence:** Integrated **Hybrid RAG (FAISS + BM25)** and XGBoost over 5K+ job descriptions, attaining 92% retrieval and 88% matching accuracy.
- Outcome:** Reduced resume screening and interview preparation effort by 80% with <2s end-to-end response time.

AI Attendance System (Computer Vision | OCR)

- Built an attendance system using **OpenCV, DeepFace, and Tesseract OCR** with **95%** face recognition accuracy.
- Developed a real-time video pipeline achieving **98% OCR accuracy** and reducing manual attendance errors by **80%**.

Skills

• Programming:	Python, SQL
• AI/ML:	Scikit-learn, TensorFlow, PyTorch, NumPy, Pandas, NLP, Computer Vision, XGBoost.
• Generative AI:	LLMs, Agentic AI, LangGraph, LangChain, Prompt Engineering, RAG.
• Backend & Cloud:	FastAPI, REST APIs, PostgreSQL, Docker, Kubernetes, AWS, Git/GitHub.
• Frontend:	React, Tailwind CSS.

Certifications, Courses & Workshops

- **Computer Networks and Internet Protocols – NPTEL**
- **Data Fundamentals – IBM SkillsBuild**
- **MLOps Workshop – Kaushalya Technical Training**

Extracurricular Activities

- **Rubik’s Cube Speedsolving** — Sub-15 sec solves in competitive settings.
- **National-Level Wrestler** – Represented university, showcasing discipline and endurance.
- **Powerlifting (Silver Medalist)** – State-level champion with proven strength and consistency.
- **National-Level Scout (Rashtrapati Puraskar)** – Strengthened leadership, teamwork, and community service.