AHMED IBRAHIM

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SUMMARY

AI/ML Engineer focused on building RAG systems and AI automation using LangChain and LangGraph. I manage the full ML model lifecycle, including data scraping, processing pipelines, and analysis. With a background in web development, I integrate various libraries and tools to deliver end-to-end, intelligent solutions.

WORK EXPERIENCE

AdmitFlow   **Jan2026-present**
- All-in-One University Admission Ecosystem with an AI chatbot powered by LangChain and RAG, featuring advanced retrieval and reranking for smarter responses.

Emergency Resource Allocation System   **Dec2024 - Jan 2025**
- Built an AI emergency resource allocation system using A* search for optimal routing and faster response times.

Predictive Urban Delivery Congestion & Smart Routing   **Nov2025 - Jan2026**
- Designed a ML system to predict urban delivery congestion using road network, weather, and POI data.

FactFinder   **Feb2026 - present**
- AI-powered research assistant that automates document retrieval, processing, and knowledge extraction for efficient information gathering.

SmartSubmit   **Jan2026-present**
- Automated LMS submission agent for NUST, streamlining the assignment submission process and reducing manual repetitive tasks.

Courses   **Sep 2025 - Oct 2025**
- Machine Learning Specialization - The updated beginner-to-intermediate ML course on Coursera, covering supervised learning, unsupervised learning. (Andrew NG).
- Completed hands-on projects and self-learning in LangChain, LangGraph, and Retrieval-Augmented Generation (RAG) using official documentation and online resources
- Deep Learning – learning through online resources.

EDUCATION

Bachelor of Science in Computer Science   **Sep2023 - Present**
National University of Sciences and Technology (NUST), Islamabad, Pakistan
School of Electrical Engineering and Computer Science.

FSc (Pre-Engineering)   **Oct2021- June2023**
District Public School & College Okara.

ADDITIONAL INFORMATION

- **Technical Skills:** Python, NumPy, Pandas, Scikit-Learn, TensorFlow/PyTorch, LangChain, LangGraph, RAG, AI Agents, Deep Learning , FastAPI, Node.js, React, MLOps basics, Jupyter, Git/GitHub.
- **Languages:** English, Urdu
- **Awards/Activities:** Gold Medalist (Sahiwal Board & Science Exhibition), College Head Boy, College Cricket Champion, Community Service Internship (Alkhidmat Foundation).