Alli Ekundayo

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AI Engineer

AI/ML Engineer with extensive experience in designing and deploying production-grade Large Language Model (LLM) platforms and intelligent agent systems. Expert in architecting event-driven, privacy-aware solutions that integrate **Retrieval-Augmented Generation (RAG)**, vector search, and robust guardrails using **LangGraph**. Proficient in full-stack AI implementation from building backend services with **Python** and **FastAPI** to managing reliability via **Docker**, **CI/CD**, and cloud infrastructure. Adept at partnering with product teams to translate complex technical capabilities into scalable, high-impact business solutions.

WORK EXPERIENCE

Direction7 Limited
AI Software Engineer • Contractor

11/2025 - Present
Eastbourne, UK

AI backend engineer, building the platform that powers personalized health insights and conversations.

- Architecting event-driven services and APIs that integrate LLMs with business logic, data stores, and privacy controls.
- Designing and deploying autonomous agents with LangGraph to orchestrate multi-step user workflows with tool use, memory, and guardrails.
- Implementing retrieval and prompt pipelines (vector search, prompt templates, evaluation harness) for trustworthy responses.
- Owning reliability: monitoring, tracing, and CI/CD to keep latency low and availability high in production.
- Collaborating cross-functionally to translate product requirements into shipped, measurable features.

Dala Innovation
Machine Learning Engineer • Full-time

03/2024 - 09/2025
Lagos,Nigeria

Machine Learning Engineer focused on low-resource NLP for Nigerian languages, delivering end-to-end production-grade translation systems.

- Architected and trained Transformer-based machine translation models with the Hugging Face ecosystem, tailored for scarce-data conditions.
- Built data pipelines for corpus collection, cleaning, alignment, and augmentation to improve coverage and model robustness.
- Exposed models via a FastAPI micro-service containerized with Docker, enabling reliable real-time inference.
- Established evaluation workflows using automated metrics and human review to track quality and guide error analysis.
- Collaborated with linguists and product stakeholders to prioritize languages and iterate on user-impacting improvements.

EDUCATION

Bachelor of Engineering in Mechatronics Engineering
Federal University Of Agriculture, Abeokuta   01/2022 - 09/2027

Passionately pursuing an Engineering degree, while working to enhance my skill set and industry experience.

CERTIFICATIONS

Agentic AI   08/2025 - 12/2025
DivVerse Labs
Deep Learning Specialization   11/2024 - 02/2025
Coursera (Andrew Ng)
Introduction to Machine Learning   09/2022 - 01/2023
Duke University

VOLUNTEERING & LEADERSHIP

RAIN-INN, FUNAAB   12/2024 - 09/2025
AI and Robotics Tech Lead   Abeokuta, Ogun State

- Directed AI-driven robotics and automation initiatives with emphasis on computer vision and autonomous control.
- Deployed deep learning models on embedded systems for real-time navigation and object recognition.
- Organized developer bootcamps focused on AI + IoT convergence.

Google Developers Group (GDG FUNAAB)   08/2024 - 04/2025
AI/ML Technical Lead   Abeokuta, Ogun State

- Led the design and deployment of AI automation workflows, integrating machine learning models with backend APIs.
- Developed prototypes using FastAPI and Dockerized AI microservices for scalable inference.
- Conducted workshops on TensorFlow, LangChain, and MLOps pipelines for automation projects.
- Mentored peers in AI deployment and API-based system integration.

SKILLS

AI Integration, API Development and RESTful Services, Artificial Intelligence Concepts, Cloud Computing (e. g. AWS, Azure), Communication and Collaboration, Continuous Integration/Continuous Deployment (CI/ CD), database management, Deep Learning, DevOps Practices, Git, Machine Learning, Neural Networks, Python Programming, System Design and Architecture, TensorFlow/PyTorch, Troubleshooting and problem-solving, Version control