

Michael Salami

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Portfolio

PROFESSIONAL SUMMARY

Applied AI Engineer with a strong foundation in building intelligent systems using machine learning, LLMs, and backend engineering. Skilled in deploying AI solutions for structured data extraction, image recognition, and document parsing. Proven ability to integrate NLP, cloud computing, and prompt engineering into real-world AI products. Currently leading development on LeafDoctor.org an AI-powered plant health platform using GPT-based assistants and CNN-based visual diagnostics. Passionate about automating complex workflows and transforming outdated manual processes through scalable AI systems.

CORE COMPETENCIES

- Applied AI | LLMs & Prompt Engineering | Backend AI Systems | Deep Learning | NLP | LangChain | Document Parsing
- Machine Learning | Software Development | MLOps | Reinforcement Learning | Kafka | Cloud Deployment (AWS, GCP, Azure)
- Python, SQL, R, Java | PyTorch, TensorFlow, Git | REST APIs | Image Classification | CI/CD Integration

PROFESSIONAL EXPERIENCE

AI Engineer (Freelance)

Olamike Solutions | Remote | Nov 2024 – Present

- Lead Applied AI Engineer for LeafDoctor.org, an AI-powered system for identifying plant diseases via image uploads.
- Engineered real-time classification pipelines with CNNs for disease detection (92% accuracy).
- Designed and deployed GPT-4-based voice and chat assistants using LangChain for treatment recommendations and care tips.
- Built and maintained backend APIs and cloud infrastructure on GCP for image processing, real-time inference, and user interaction.
- Integrated document parsing and structured data extraction workflows for plant health records and expert guidance.

Machine Learning Engineer

LeafDoctor (Part-Time) | Jan 2024 – Present

- Constructed LLM pipelines for plant diagnostic automation using prompt tuning and zero-shot models.
- Created multi-stage image-to-text-to-decision flow using LangChain and OpenAI APIs.
- Collaborated with software engineers and domain experts to optimize annotation pipelines and improve model response relevance.

Data Scientist

DataKirk | Edinburgh, Scotland (Hybrid) | May 2024 – Nov 2024

- Developed ML models to predict customer behaviour and optimize workflows across enterprise clients.

- Automated extraction and processing of technical documents using NLP, reducing analyst workload by 35%.
- Applied LLM-based agents to summarize engineering specs and structured data from raw PDF sources.

STEM Ambassador

CodeBase Stirling | Stirling, Scotland | Feb 2023 – Jan 2024

- Delivered workshops and mentorship on LLMs, AI ethics, and hands-on applications in generative AI.

Software Engineer

Shokenny Solutions Ltd | Akure, Nigeria | Aug 2020 – Dec 2023

- Developed full-stack applications using Flutter, Python, and Java, increasing delivery throughput by 98%.
- Built backend systems supporting customer data extraction, transformation, and analytics at scale.
- Translated client business needs into deployable technical architectures across 10+ enterprise projects.

SELECTED PROJECTS

ElectroGadget AI Chatbot

- Built LLM chatbot using GPT-4, LangChain, and pdfplumber to resolve customer queries in retail domain.
- Automated document reading and Q&A over manuals and specs; increased support response accuracy by 25%.

Store Performance Prediction

- Trained and deployed ensemble ML models to forecast retail KPIs with 88.7% accuracy.

Environmental Data Modeling

- Used PyTorch and remote sensing data to optimize environmental predictions for sustainability applications.

Sports Analytics Platform

- Built linear regression models to predict athlete metrics; integrated hypothesis testing and feature selection.

CERTIFICATIONS

A.I. & Machine Learning Data Science Bootcamp:	Zero to Mastery Academy	2024
R Programming A-Z: R for Data Science with Real Exercises:	Udemy	2024
LangChain for LLM Application Development:	DeepLearning.AI	2024
Introduction to Cybersecurity:	Cisco	2020

Awards

Future Tech Star:	CODEBASE	2024
<ul style="list-style-type: none">• Recognized for innovative leadership in AI product development and mentoring.		

ADDITIONAL INFO

Remote, Hybrid or Onsite Work Ready | Willing to Travel | Availability: Immediate | Visa Sponsorship Ready
Skilled with Git, CI/CD, LangChain, Kafka, REST APIs, and cloud-scale deployments

References

Available upon request.