

SOMTOCHUKWU OGBE

Machine Learning Engineer

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SUMMARY

Machine Learning Engineer with 3+ years of experience end to end building and deploying production ML systems, agentic architectures, and data-driven products including feature engineering, model training, serving infrastructure, and live monitoring. Experience spans recommendation, NLP/speech, computer vision, and RAG pipelines, with a consistent focus on reliability and measurable business impact. Strong Python and software engineering fundamentals, fluent across the AWS/GCP/Azure stack, and comfortable operating in fast-paced, cross-functional startup environments.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL

ML & Data Science: Scikit-learn, TensorFlow, Keras, PyTorch, Pandas, NumPy, OpenCV, NLTK, Matplotlib, Seaborn

MLOps & Cloud: AWS, GCP, Azure, model serving/deployment, monitoring, ML pipelines & feature engineering

Generative & Agentic AI: LangChain, LangGraph, LlamaIndex, RAG pipelines, Vector DBs (FAISS, Pinecone, Qdrant, ChromaDB)

Backend & Databases: Django, Django REST Framework, Flask, FastAPI, PostgreSQL, MongoDB, SQL

Frontend & Tools: HTML, CSS, Bootstrap, Streamlit, Git/GitHub

PROFESSIONAL EXPERIENCE

AI Engineer — AISHA (Sproxil) (Nigeria — On-site) Jul 2025 – Present

- Designed and implemented an agentic system architecture from scratch for AISHA.ng, a production platform serving over 60,000+ users, with a focus on reliability and scalability.
- Contributed in building a real-time consultation portal enabling seamless communication between healthcare practitioners and patients using Django REST Framework and PostgreSQL, contributing directly to product and engineering roadmap delivery.
- Built and maintained backend services and APIs using FastAPI to support model-serving and application infrastructure.

Computer Vision Engineer — Proxmaq Foundation (Remote, India) Sep 2025 – Present

- Trained a currency detection model end-to-end including dataset annotation to help blind users identify currency notes via the Proxmaq mobile app.
- Built a face recognition system to help blind users identify and recognize people, taking the it from concept through deployment in the mobile app.

AI Engineer (Intern) — Voicebreeze (Remote, US) Aug 2025 – Oct 2025

- Fine-tuned speech-to-text models (Meta MMS, Coqui TTS) on custom local-language datasets on GCP to improve recognition of Nigerian accents and speech patterns.
- Adapted and fine-tuned language models for Nigerian conversational context using Unsloth for accelerated training, then deployed a production-ready chatbot on GCP.
- Built a Retrieval-Augmented Generation (RAG) pipeline for medical document processing, including data scraping and preprocessing workflows for model training and evaluation.

AI Engineering Lead — JOS (Remote, Nigeria) Feb 2025 – Jan 2026

- Led and coordinated a team of AI engineers delivering educational projects and tooling for emerging-technology curricula, managing planning through deployment.
- Oversaw development of AI-powered learning tools, simulations, and robotics applications for STEM education, collaborating with curriculum designers and educators to keep technical content accurate and engaging.

AI/ML Engineer (Intern) — Quantum Side Technologies (Remote, US) Dec 2024 – May 2025

- Developed AI-driven KYC solutions that reduced verification time by 60%, directly improving operational throughput.
- Implemented a chatbot for automated customer support and document verification, improving user experience and reducing manual review load.

AI and Data Science Educator — ForeTrust Technologies (*Nigeria — On-site*) Sep 2024 – Dec 2024

- Delivered hands-on Python tutorials for exploratory data analysis and mentored 25+ students in machine learning and deep learning using Scikit-learn and TensorFlow.

Software Developer — Qaval Research Limited (*Remote, Nigeria*) Jul 2022 – Jan 2023

- Developed web applications using Python and Django; automated repetitive tasks, contributing to a 30% increase in customer engagement within 2 weeks.
- Designed interfaces using WordPress to enhance user experience.

EDUCATION

B.Sc. Computer Science November 2024

Godfrey Okoye University, Enugu — First Class Honours

- Winner, Godfrey Okoye University 2024 Hackathon — built a facial recognition attendance system.
- Top 24 of 200+ teams, 2025 Enugu Campus Hackathon.
- NACOS Director of Software; St. Stephen Hostel Moderator.

LANGUAGES

English (Fluent) | Igbo (Fluent)