SILAS OKANLAWON

okanlawonsilas@gmail.com | [My Portfolio](#) | [Github Profile](#) | Full-Stack Developer | Data Scientist | AI/ML Engineer

---

PROFESSIONAL SUMMARY

Visionary and execution-focused AI Engineer and Full-Stack Developer with a strong foundation in machine learning, deep learning, and scalable web architecture. Known for designing intelligent systems that bridge AI and user-centric web apps. From deploying LLMs locally to automating business operations, I build production-grade solutions that unlock measurable value across industries.

CORE COMPETENCIES

Web Development

Frontend: React.js, Next.js (v15+), Tailwind CSS, JavaScript (ES6+), HTML5/CSS3

Backend: FastAPI, Flask, Firebase, Supabase, Node.js

Performance: SSR, ISR, Lazy Loading, API Caching, Code Splitting

AI/ML Development

Frameworks: PyTorch, TensorFlow, Keras, scikit-learn

Techniques: CNNs, RNNs, LSTMs, Transformers, YOLO

NLP: spaCy, NLTK, Hugging Face, Prompt Engineering

Automation & Tooling

Automation: Selenium, BeautifulSoup

Databases: PostgreSQL, MongoDB, Firebase Realtime DB

DevOps: Docker, GitHub Actions, Git

DataViz: Matplotlib, Seaborn, Plotly, Dash

CERTIFICATIONS

Google Data Analytics Professional Certificate

Full Stack Web Development (udemy)

PROFESSIONAL EXPERIENCE

Data Scientist Intern — SkillBoost Africa (Internship)

Jul 2025 – Present

Assisting in the development of data-driven products to support upskilling and career advancement in Africa.

Performing exploratory data analysis, feature engineering, and predictive modeling across learner performance and engagement datasets.

AI Engineer & Full-Stack Developer — Rehub Developers (Remote)

Jan 2024 – Present

Engineered custom AI pipelines (NLP, CV, Predictive Models) integrated into web platforms.

Architected scalable full-stack apps using Next.js, Flask, and FastAPI.

Ran local LLMs (TinyLlama) for secure, offline inference in sensitive use cases.

Automated data ingestion workflows with APIs and improved accessibility by 30%.

Led DevOps practices: CI/CD, Dockerized deployments, and code reviews.

Freelance Full-Stack Developer — Remote

2022 – Present

Delivered 15+ production-grade apps across e-commerce, healthtech, and automation.

Integrated AI APIs into client dashboards for real-time analytics and automation.

Built pixel-perfect UIs with SEO-optimized pages for maximum visibility.

AI & Automation Consultant — Remote

2023 – 2024

Developed ML/NLP tools and automation systems saving clients 15–20 hours/week.

Built scalable REST APIs with FastAPI, deployed using Docker + GitHub Actions.

Specialized in integrating AI agents into business workflows.

KEY PROJECTS

AI & Machine Learning Systems

ScholarAI — Privacy-Preserving AI Research Assistant

Tech: Next.js 15, Tesseract.js, Gemini API, Ollama (LLaMA3), PDF2Pic

Built an open-source research assistant that enables secure, private document analysis and research tasks using both local and cloud LLMs.

Supports local model inference via Ollama for privacy-first workflows, while offering fallback to cloud APIs like Gemini Pro.

Designed modular architecture for user-controlled model selection, privacy mode, and offline compatibility.

Frontend built with Tailwind, Framer Motion; backend powered by Next.js API routes.

Emotion Detection (CNN-based)

Integrated into mental health apps for live facial emotion recognition.

YOLO Object Detection

Deployed for real-time scene analysis in smart surveillance.

Chatbot with Adaptive Personality (NLP)

Used sentiment + persona profiling for dynamic response control.

Stock Price Forecaster (LSTM)

Delivered >25% improvement in prediction stability using sequence modeling.

Content Generator (Stable Diffusion + Gemini API)

Built for creators to automate asset creation (text/image pairing).

Automation & Full-Stack Solutions

Smart Irrigation System

IoT-based control with moisture sensors and automated triggers, powered by Arduino.

Gym Management Dashboard

Real-time progress tracking, trainer analytics, and membership management.

E-Commerce Platform

Built complete solution from inventory management to secure checkout.

Court Reservation Bot (Selenium)

Automated weekly booking of limited court slots with precision.

EDUCATION

B. Sc. Computer Science— University of Ibadan (in progress)

Key Works:

Predictive Modeling for E-commerce

NLP Chatbots for Academic Advisory

Automation Apps for Learning Management