

# HALIMAT IBRAHIM-AKINOSO

**AI Developer | Machine Learning Engineer | Full-Stack AI Builder**

Nigeria

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## PROFESSIONAL SUMMARY

Innovative AI Developer with strong experience in building intelligent systems using machine learning, natural language processing, and full-stack technologies. Skilled in developing AI-powered educational platforms, RAG pipelines, and data-driven web applications. Passionate about applying artificial intelligence to solve real-world problems in education, commerce, and social impact, particularly in African contexts.

## CORE SKILLS

### Artificial Intelligence & Machine Learning

Machine Learning (Supervised & Unsupervised Learning)

Natural Language Processing (NLP)

Retrieval-Augmented Generation (RAG)

Prompt Engineering

Large Language Models (LLMs)

Text Embeddings & Semantic Search

### Programming & Tools

Python, JavaScript

TensorFlow, PyTorch

LangChain, LlamaIndex

OpenAI API

Hugging Face

Scikit-learn, Pandas, NumPy

### Web & Application Development

HTML, CSS, Bootstrap, Tailwind

React, JavaScript

PHP, MySQL

REST APIs

## Dev & Deployment

Git & GitHub

Docker

Linux

VS Code

Cloud deployment (Render, Vercel, etc.)

## PROJECT EXPERIENCE

### TutorPlus AI - Multilingual Education Assistant

AI-powered learning platform for Nigerian secondary school students

Built an AI tutor that supports English, Yoruba, Hausa, and Igbo

Integrated RAG for accurate syllabus-based responses

Designed student authentication, subject selection, and AI chat interface

Improved learning outcomes through personalized AI feedback

### AI-Powered RAG System

Document-based question-answering system

Implemented PDF ingestion, chunking, embeddings, and vector search

Used OpenAI embeddings and LangChain for retrieval

Built a context-grounded response pipeline to reduce hallucination

### E-Commerce AI Platform

Built a product listing, cart, and checkout system

Integrated AI-driven product recommendations

Developed frontend using HTML, CSS, JavaScript

### Educational Blog Platform

User authentication and post management system

Integrated analytics and AI-assisted content creation

Built using PHP, MySQL, and JavaScript

# RESEARCH & ACADEMIC WORK

## **PhD Research Proposal (In Progress)**

*Exploring the interplay of self-regulation, engagement, and goal orientation in predicting mathematics achievement in public senior secondary schools in Oyo State*

Focus on data-driven educational analysis

Integrating AI-based learning models to support student performance

# EDUCATION

## **Bachelor's Degree in Computer Science and Education**

Olabisi Onabanjo University Ago-Iwoye Ogun State Nigeria 2008

Blaze University Abuja. Software Engineer (IDEA) 2024-2025

Artificial Intelligent Engineering Training (A.I DEVELOPER) 2025-2026

# CERTIFICATIONS & TRAINING

Machine Learning Fundamentals

AI & Data Science

Web Development

# SOFT SKILLS

Problem solving

Analytical thinking

Research and documentation

Team collaboration

Communication of technical ideas

# INTERESTS

Artificial Intelligence for Education

African language AI models

EdTech innovation

Data-driven policy making

