

# Salaudeen Mubarak Onoruoiza

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## Professional Summary

Passionate AI Engineer skilled in **Python** and building **LLM-powered systems**, with a strong foundation in **machine learning, deep learning, and retrieval-augmented generation (RAG)**. Experienced in designing and deploying **context-aware, production-ready AI applications** including semantic search systems, agentic workflows, and intelligent assistants used by real users. Highly motivated to build impactful, scalable AI tools for innovative startups and emerging markets.

## Core Skills

**Programming Languages:** Python

AI/ML	ML & Data Tools	LLM & NLP Tooling	Framework
Deep Learning	Hugging face	Vector Databases: FAISS	Pytorch
Large Language Models (LLMs)	Scikit-learn	LangChain	NumPy
Retrieval-Augmented Generation(RAG)	TensorFlow	LanGraph	Open AI API
Embeddings & Semantic Search	Pandas, Matplotlib	Transformers	
Agentic & Context-Aware Systems	LightGBM		

**Soft Skills:** Analytical Thinking, Clear Communication, Problem Solving, Time Management.

## Experience

### AI Engineer/Software

*Independent Projects & Open Source | 2024 – Present*

- Designed and deployed **context-aware AI assistants** using RAG and modern LLM tooling.
- Built **search, retrieval, and document indexing pipelines** over large unstructured datasets.
- Developed **agent-like systems** that preserve conversational and task context across multi-step workflows.
- Shipped public-facing AI tools used by real users across legal, policy, education, and health domains.
- Maintained a strong focus on accuracy, relevance, safety, and user trust in high-impact applications.

## AI & ML Projects

### De\_Law — AI-Powered Legal Assistant for Nigerians

 [https://huggingface.co/spaces/mozzic/De\\_Law](https://huggingface.co/spaces/mozzic/De_Law)

- Developed a **RAG-powered chatbot** that helps users understand Nigerian laws and their rights in simple language.
- Indexed verified legal documents (e.g., Tenancy Law, Labour Act) for semantic retrieval and explanation.
- Focused on correctness, clarity, and responsible AI in a high-stakes legal domain.  
**Tools:** Python, LangChain, OpenAI API, FAISS, Hugging Face, Gradio

### Debate\_Pal — AI Debate Sparring Partner

 [https://huggingface.co/spaces/mozzic/debate\\_pal](https://huggingface.co/spaces/mozzic/debate_pal)

- Built an AI-driven debate assistant to improve critical thinking and argumentation skills.
- Enabled structured, context-aware debate simulations with dynamic responses.  
**Tools:** Python, LangChain, GPT Models, Streamlit

### RelocateAI — Context-Aware AI Relocation Guide

 <https://navigate-ai-pyzi-n6b3igcrr-mozzicstars-projects.vercel.app>

- Built a multi-step AI assistant guiding users through international relocation processes.
- Maintained user state across visa, cost-of-living, healthcare, and cultural workflows.  
**Tools:** Python, RAG, Agentic Workflows

### Tax Reform Bot — AI Public Education Assistant

 <https://ai-tax-reform.vercel.app>

- Built an AI explainer system for Nigeria's 2025 Tax Reform Acts (NTA & NTAA).
- Helped students, freelancers, and small business owners understand policies and obligations.  
**Tools:** Python, RAG, Context-Aware Systems
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### MumPal — AI Companion for Mothers

 <https://mum-palz.vercel.app>

- Built a personalized AI assistant adapting responses based on pregnancy stage, baby age, and symptoms.
- Integrated emotional support, safety guidance, and culturally sensitive advice.  
**Tools:** Python, Personalization, Context-Aware AI

## TheraMood — Emotion-Aware Mental Health Chatbot

🌐 <https://theramood-frontend.vercel.app>

- Developed an emotion-conditioned conversational agent for youth mental well-being.
  - Designed empathetic dialogue flows inspired by therapeutic frameworks.
- Tools:** Python, NLP, Responsible AI

## NASA Exoplanet Classifier — AI Research Competition Project

🌐 <https://huggingface.co/spaces/mozzic/nasa-exoplanet-classifier>

- Participated in the **NASA Space Apps Challenge**, building an ML model to classify exoplanets.
- Improved accuracy through feature engineering and model tuning.
- Achieved 90% accuracy using tree based and neural approaches.

**Tools:** Python, TensorFlow, Scikit-learn, Pandas, LightGBM

## Education

University of Lagos - B.Sc. in Systems Engineering

Lagos, Nigeria | 2023 - 2028 (Expected)

## Certifications

- Certified Python Developer - ECX, 2025
- Building RAG agent with LLMs - NVIDIA, 2025
- Introduction to Deep Learning – NVIDIA, 2025

## Languages

English - Fluent

Yoruba - Native

## Interests

Football, Politics, Researching

## References

Available upon request