

# ALEDARE JOHN OLUWASEUN

## MACHINE LEARNING ENGINEER

LinkedIn: John Aledare | aledareoluwaseunjohn@gmail.com | [www.aledare.vercel.com](http://www.aledare.vercel.com)

### SUMMARY

ML Engineer with a strong foundation in Applied Machine Learning and Artificial Intelligence. Experienced in building and fine-tuning AI Models for various tasks and developing autonomous hardware systems using Raspberry Pi and Computer Vision. Passionate about bridging the gap between theoretical AI concepts and practical, real-world solutions.

### PROFESSIONAL EXPERIENCE

#### Centre for Applied Machine Learning and Data Science

Mar 2025 - Dec 2025

- Built and deployed machine learning models for NLP and Computer Vision applications  
Developed data preprocessing and model evaluation pipelines using Scikit-learn and TensorFlow
- Collaborated with cross-functional teams to deploy ML models with Streamlit and FastAPI
- Mentored interns on Python Programming, data preprocessing, and ML model development

### PROJECTS

#### AetherMatch – Autonomous Semantic Movie Recommendation Engine

- Architected a semantic retrieval system utilizing BERT and FAISS for real-time vector search (<50ms).
- Optimized recommendation quality by implementing a custom "Guardrails" filtering layer, solving the problem of tonal dissonance in mood-based queries.
- Tech Stack: Python, FastAPI, FAISS, GitHub Actions, Docker, React.

#### Brain Tumor MRI Classifier

- Developed a medical diagnostic tool using Transfer Learning (EfficientNetB0) to classify brain tumors into 4 categories with high accuracy on a 7,000+ image dataset.
- Deployed a cross-platform solution, creating a web interface with Streamlit for rapid inference and engineering a mobile-optimized version using TensorFlow Lite (TFLite) integrated into a Flutter mobile app.
- Tech Stack: Python, TensorFlow/Keras, EfficientNet, Streamlit, TFLite, Flutter.

### SKILLS

PyTorch	Pandas	Python	AWS	FastAPI	Sci-kit Learn
TensorFlow	NumPy	Docker	Hugging Face	Keras	OpenCV

### EDUCATION

#### Bachelor of Computer Engineering

Jun 2021 - Jul 2026

University of Ilorin

- Relevant coursework in Software Development and Artificial Intelligence.

### CERTIFICATIONS

- **OCI Generative AI Professional** - Oracle University (2025)
- **Oracle Certified AI Foundations Associate** - Oracle University (2025)
- **Machine Learning Specialization** - Stanford University & DeepLearning.AI (2025)