

# AYELERU ABDULSALAM OLUWASEUN

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## PROFESSIONAL SUMMARY

Data Science and Full-Stack Development specialist with hands-on experience building innovative AI-powered applications, seeking to leverage expertise in machine learning and NLP in an entry-level role.

## TECHNICAL SKILLS

- ♦ **Programming Languages:** Python(Advanced), Java(Intermediate), SQL
- ♦ **Machine Learning & AI:** TensorFlow, Natural Language Processing, Computer Vision, Deep Learning, Prompt Engineering
- ♦ **Web Development:** Django, FastAPI, React, Streamlit
- ♦ **Data Science:** Pandas, Matplotlib, Seaborn
- ♦ **Tools & Technologies:** Docker, Git/GitHub, LangChain
- ♦ **Soft Skills:** Team Leadership, Critical Thinking, Communication, Flexible Learning

## NOTABLE PROJECTS

### AI/ML Projects

- ♦ **Study Buddy Chatbot (2024)**
  - Developed an interactive chatbot using Google Gemini LLM
  - Implemented backend with FastAPI and frontend with React
  - Created responsive user interface for seamless interaction with <90ms latency.
- ♦ **Mental Health Therapy Chatbot**
  - Implemented NLTK for text processing and tokenization
  - Trained a multilayer perceptron using TensorFlow
  - Deployed solution via Streamlit for user accessibility
- ♦ **RAG-based Q&A System**
  - Built a Retrieval-Augmented Generation application for article analysis
  - Integrated LangChain for advanced language model capabilities
  - Achieved 90% relevancy score in answer generation.
  - Reduced query processing time by 40% through optimization.
- ♦ **AI Financial Advisor Agent**
  - Created an intelligent financial advisory system using LangChain
  - Integrated Google Gemini LLM for enhanced response generation

## Computer Vision & Machine Learning

### ♦ **Facial Recognition Attendance System**

- Developed OpenCV-based face recognition algorithm with 98% accuracy
- Integrated with laptop camera for real-time processing
- Implemented attendance marking functionality and reduced the tracking time by 80%

### ♦ **Image Classification System**

- Developed CNN achieving 92% score accuracy across 6 classes
- Optimized model reducing inference time by 35%

### ♦ **Movie Recommendation Engine**

- Implemented content-based filtering using cosine similarity
- Created user-friendly interface with Streamlit
- Developed efficient movie search and ranking system

## Software Engineering

### ♦ **Micrograd Framework**

- Developed a machine learning framework in Java
- Inspired by Andrej Karpathy's work
- Implemented core ML functionalities

## EDUCATION

### **Bachelor of Science in Computer Science(Expected 2027)**

University of Ibadan

## PROFESSIONAL EXPERIENCE

### **NLP Engineer** (2023 - Present)

- ♦ Specialized in natural language processing applications
- ♦ Developed and deployed various NLP solutions
- ♦ Improved model accuracy by 25% through optimization

### **Machine Learning Engineer** (2022 - Present)

- ♦ Implemented various ML algorithms and models
- ♦ Focused on practical applications of machine learning

### **Deep Learning Engineer** (2020 - Present)

- ♦ Designed and developed deep learning solutions
- ♦ Specialized in neural network architectures

## ADDITIONAL ACHIEVEMENTS

- Solved 50+ problems in Data Structures and Algorithm on Leetcode
- Co-lead at RAINN-UI(Robotics and Artificial Intelligence) at UI.