

# Ojomideju Adejo

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## PROFESSIONAL SUMMARY

Mechatronics Engineering graduate with hands-on experience in AI/ML, data-driven applications, and full-stack development. Skilled in building intelligent systems that leverage machine learning, automation, and user-friendly interfaces. Seeking working opportunities or internships in AI/ML engineering and data science.

## EDUCATION

### Bowen University, Iwo

B. Eng. Mechatronics Engineering

Osun State, Nigeria

Nov. 2020 – June 2025

## EXPERIENCE

### Machine Learning Intern

Feb. 2024 – Sep. 2024

National Center for Artificial Intelligence and Robotics (NCAIR)

Abuja, Nigeria

- Collaborated on building and testing ML models for robotics and data analysis, improving system performance by contributing optimized preprocessing and model evaluation workflows.
- Participated in collaborative projects focused on real-world AI applications in robotics and data science.

### Mechatronics Engineering Intern

June 2023 – Sep. 2023

National Space Research and Development Agency (NASRDA)

Abuja, Nigeria

- Gained practical experience in embedded systems and Mechatronics processes.
- Assisted in technical tasks related to project development and system maintenance.

### Data Entry Specialist

Mar. 2023 – Mar. 2023

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Remote

- Managed and organized large volumes of structured data using spreadsheets, ensuring high accuracy and consistency
- Increased data reliability by careful validation and correction of data inconsistencies
- Maintained productivity under tight deadlines, consistently meeting targets without compromising data integrity.

## PROJECTS

### Learning Assistant Chatbot / Python, LangChain, Groq API, Streamlit

August 2024

- Built a chatbot using **LangChain** and **Streamlit** to assist my academic learning and studying.
- Added features including note upload and YouTube video summary.
- Integrated **semantic routing** to handle multiple tasks like Q&A, summarization, and contextual document chat.
- Implemented **RAG pipeline** using **FAISS vector database** for data storage and retrieval.

### Invoice Extraction RAG Application / Python, Pandas, LangChain, Streamlit

July 2024

- Developed an **LLM-powered RAG pipeline** to automate invoice data extraction using **LangChain with Google Generative AI API**.
- Designed **prompt-engineered templates** to **parse unstructured PDFs** and map values (Invoice No., Description, Date, Amount, Contact Info) into structured data.
- Built a **Streamlit interface** for multi-file PDF upload, **real-time extraction**, and CSV export.
- Improved **accuracy and usability** by handling misaligned fields and cleaning extracted values.
- Delivered a solution that **reduces manual data entry time** and enhances reliability in financial workflows.

### Beans Disease Detection Model / Python, TensorFlow, Keras, Flask, JavaScript

June 2024

- Developed a **CNN-based model** for classifying bean leaf diseases using **TensorFlow, Keras**, and transfer learning techniques.
- Applied **data preprocessing, augmentation, and feature extraction** techniques to ensure high data quality and improve model performance.
- Achieved over **90% accuracy** on the training and test sets.
- Deployed CNN model via a **Flask API** and integrated to a simple web interface for inference and testing.

### BAES Elections Website / React.js, Node.js, Tailwindcss, PostgreSQL, Render

December 2024

- Developed a secure, **full-stack web application** to facilitate student voting during the Bowen Association of Engineering Students (BAES) executive elections for the 2025/2026 session.
- Implemented authentication and authorization using **jwt** to ensure only eligible students could vote, and vote for their

department/level specific positions, maintaining election integrity.

- Designed a **responsive**, intuitive frontend with **real-time result polls** for enhanced user engagement and transparency.

## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, SQL, HTML/CSS

**Frameworks & Libraries:** TensorFlow, Keras, PyTorch, Scikit-learn, Hugging Face Transformers, LangChain, LangGraph, CrewAI, FastAPI, Flask, React.js, Node.js, pandas, NumPy, Matplotlib, Seaborn

**Developer Tools & Platforms:** Git, Docker, Linux, VS Code, PyCharm, Streamlit, Supabase, Postman, Jupyter Notebook, Google Colab

**Databases:** PostgreSQL, SQLite