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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. Proven track record of deploying end-to-end ML solutions from model development to production. Seeking opportunities in AI/ML engineering and data science.

WORK EXPERIENCE

Generative AI & Data Science Intern | Remote Sep 2025 – Present
FlexiSAF Edusoft Limited

- Developed ML systems using ensemble learning, deep learning (PyTorch, TensorFlow), and reinforcement learning, contributing optimized feature engineering and model evaluation workflows.
- Participated in collaborative projects focused on real-world AI applications including NLP, time series forecasting, and big data processing with Apache Spark.
- Applied ethical and explainable AI techniques across the full ML development lifecycle, ensuring transparency and fairness in model predictions.

Machine Learning Intern | Abuja, Nigeria Feb 2024 – Sep 2024
National Center for Artificial Intelligence and Robotics (NCAIR)

- Collaborated with teams to build and test ML models for robotics and data science applications, improving system performance through optimized preprocessing and model evaluation workflows.
- Participated in real-world AI projects that involved training and deployment of models on edge devices using edge computing techniques.
- Contributed to robotics integration projects, applying machine learning algorithms to enhance the capabilities of the autonomous system.

Mechatronics Engineering Intern | Abuja, Nigeria Jun 2023 – Sep 2023
National Space Research and Development Agency (NASRDA)

- Gained practical experience in embedded systems and mechatronics processes, including robotics integration and system design.
- Applied fundamentals of electronics and worked with various electronic components in real-world embedded systems applications.
- Learned about mechatronics applications in space research and satellite system development.


PROJECTS

FPL Gaffer | Python, LangGraph, LangChain, FastAPI, WhatsApp API, TavilyAPI, GroqAPI Aug 2025
🐙 <https://github.com/DejusDevspace/fpl-gaffer>

- Built an autonomous AI agent system using LangGraph for Fantasy Premier League team management, deployed on WhatsApp with FastAPI webhook infrastructure for real-time bidirectional communication.
- Integrated official FPL API and web search tools, enabling agent to autonomously retrieve player statistics, manager team information, fixtures, and real-time football news.
- Engineered self-validating workflow with automated hallucination detection and corrective loops, reducing inaccurate recommendations by over 80% through intelligent tool re-execution and data verification.
- Architected agentic workflows with state management for complex decision-making, and memory management, providing personalized transfer recommendations and strategic insights.

Personal Learning Assistant | Python, LangChain, FAISS, GroqAPI, Streamlit


Aug 2024

 <https://github.com/DejusDevspace/Personal-Leaning-Assistant-Q-A-Conversational-Chatbot>

- Built personal AI assistant for academic learning with note uploads and YouTube video summarization capabilities.
- Integrated semantic routing to handle multiple tasks including Q&A, summarization, and contextual document chat.
- Designed and implemented RAG pipeline using FAISS vector database for efficient data storage and retrieval with Streamlit interface.

Invoice Extraction RAG App | Python, Pandas, LangChain, Streamlit


Jul 2024

 <https://github.com/DejusDevspace/Invoice-Extraction-RAG-application>

- Developed 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 into structured data with CSV export capability.
- Delivered a solution that reduces manual data entry time and enhances reliability in financial workflows.

Image Captioning with Attention | Python, PyTorch, TensorBoard, Streamlit

Oct 2024

 <https://github.com/DejusDevspace/FlexiSAF-Advanced-GenAI-DS-Internship/tree/main/task2/image-captioning>

- Developed end-to-end image captioning system using encoder-decoder architecture with PyTorch, achieving accurate caption generation on 8,000+ images.
- Implemented CNN encoder using transfer learning from pretrained ResNet50 for feature extraction and LSTM decoder with teacher forcing for sequential text generation.
- Built custom data pipeline with vocabulary management and deployed model with real-time inference pipeline using Streamlit.

EDUCATION

Bowen University, Osun State, Iwo

Bachelor of Engineering (B.Eng) in Mechatronics Engineering

CGPA: 4.3/5.0 (Second Class Upper)

July 2025

LEADERSHIP & ACTIVITIES

Python Programming Tutor | Iwo, Nigeria

2024 – 2025

Engineering Club, Bowen University

- Taught "Python for Engineering Innovation" course to engineering students, covering programming fundamentals and practical applications.
- Developed curriculum and hands-on projects to help students apply Python to solve engineering problems.

TECHNICAL SKILLS

Languages: Python (ML/AI, Automation, Data Science), C++ (IoT & Robotics), JavaScript (ES6+, React), TypeScript, SQL, HTML & CSS (responsive)

ML/AI & Data Science: PyTorch, TensorFlow, Keras, Scikit-learn, LangChain, LangGraph, LangSmith, HuggingFace, XGBoost, LightGBM, Pandas, NumPy, Matplotlib, Seaborn, Apache Spark

Web & Backend: React.js, FastAPI, Flask, Node.js (Express.js), Firebase, Supabase

DevOps & Tools: Git, Docker, Linux, Vercel, Render, Streamlit, Google Colab, Postman, VS Code, Py-Charm, Jupyter Notebook, Arduino IDE

IoT & Embedded: Arduino, RaspberryPi, ESP32, MQTT

Databases: PostgreSQL, SQLite, FAISS, Chroma, Pinecone, Qdrant