

ANDREW JOSHUA ADOLE

AI Engineer | LLMs, AI Agents & Workflow Automation

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PROFILE

Agricultural Science undergraduate with a growing specialization in Artificial Intelligence, Machine Learning, and AI Automation. I have experience building applied AI solutions, including real-time object detection systems using computer vision and machine learning techniques, as well as intelligent workflow automation systems that streamline business operations.

My interests extend to large language models (LLMs), AI agents, retrieval-augmented generation (RAG), lead qualification systems, and customer relationship management (CRM) automation. I have designed and implemented AI-powered workflows using n8n, integrating technologies such as Airtable, Google Sheets, APIs, OpenRouter, Docker, and vector databases to automate lead capture, qualification, routing, and customer engagement processes.

Through self-directed learning and hands-on projects, I have developed skills in Python, machine learning, prompt engineering, workflow automation, API integration, data processing, AI-powered customer support systems, and business process automation. I am particularly interested in model reliability, evaluation, and the practical deployment of AI systems in real-world environments.

I combine a strong technical foundation with a problem-solving mindset, focusing on building scalable, intelligent, and reliable AI solutions that create measurable business value.

PROFESSIONAL EXPERIENCE

AI Tech 🌐, Junior AI Engineer

05/2026 – Present | Abuja

As a Junior AI Engineer and Instructor, I develop and implement AI-powered solutions, machine learning models, and workflow automation systems to solve real-world business challenges. My role involves building intelligent applications using Python, AI agents, APIs, and automation tools such as n8n, while also teaching foundational and advanced concepts in Artificial Intelligence, Machine Learning, and Python programming. I support learners through hands-on projects and practical training, helping bridge the gap between theory and industry application.

AI Tech, Student (Diploma in Software Engineering)

07/2025 – 03/2026 | Abuja

- Developed mobile and backend applications using Flutter and Dart, integrating machine learning and computer vision features.
- Focused on building reliable systems and understanding how performance and behavior change in real world conditions.

Flexisaf Edusoft Limited, Intern (Generative AI and Data Science)

01/2025 – 04/2025 | Abuja

- Interned at Flexisaf in Generative AI and Data Science, where I contributed to developing and fine tuning models for content generation.
- Worked on improving output quality and consistency, and gained exposure to how model behavior can vary across different prompts and use cases.
- This experience deepened my interest in understanding and evaluating how generative models perform in practical settings.

AI Tech, Student (Diploma in Artificial Intelligence and Machine Learning)

10/2023 – 10/2024 | Abuja

- Developed a real time object detection and tracking system using OpenCV, TensorFlow, and YOLO, focusing on how model performance changes in practical deployment settings.

- Worked on data preprocessing, detection accuracy, and optimization under constraints such as low frame rates and variable lighting.
- This experience sparked my interest in how AI systems behave outside controlled environments and the challenges of maintaining reliability in real world conditions.

EDUCATION

Flexisaf Edusoft Limited , <i>Generative Ai & Data Science</i>	01/2025 – 04/2025 Abuja
Artificial Intelligence Technology ltd (AiTech) <i>Diploma in Artificial Intelligence and Machine Learning</i>	10/2023 – 10/2024 Abuja, Nigeria
University of Abuja , <i>Agricultural Science</i>	09/2018 – 12/2023 Abuja, Nigeria
AI Tech , <i>Diploma in Software Engineering</i>	07/2025 – 03/2026 Abuja

SKILLS

AI & ML (Large Language Models (LLMs) • AI Agents & Workflow Automation • Retrieval-Augmented Generation (RAG) • Machine Learning • Computer Vision) | **AI Automation** (N8N, Zapier, Make • CRM Automation • HubSpot • Airtable, Google Sheets, Notion. • Telegram, WhatsApp, Gmail Automation. • AWS EC2 • Docker • Postman) | **Data Analysis** (Data Extraction • Data Mining • Data Cleaning • EDA • Data Visualization • Data Modelling) | **Software Engineering** (Python • PhP • MySql • Laravel • Dart • Hive) | **Tech skill** (Tech savviness • Proficiency with remote tools (Zoom, Slack, Microsoft Teams, Trello) • Canva, Adobe Photoshop, Figma) | **Soft Skills** (Remote • Communication • Flexibility • Organization • Time Management • Self-motivation • Teamwork • Critical Thinking • Problem solving)

LANGUAGES

English

CERTIFICATES

SSCE O’level (WAEC) | Bachelor’s degree in Agricultural science (University of Abuja) | Diploma in Artificial Intelligence and Machine Learning | Machine Learning with Python  | Exploratory Data Analysis for Machine Learning  | AWS Educate Machine Learning Foundations  | Diploma in Software Engineering

PROJECTS

AI Lead Integration (Telegram)

Designed and implemented an AI-powered lead management workflow that captures inquiries from Telegram and Google Forms and stores them in a centralized CRM system. Built automated lead qualification and routing processes using AI agents to classify inquiries, score lead quality, and assign requests to the appropriate business department. Integrated Airtable, email notifications, and workflow automation tools to track lead status, streamline follow-up activities, and improve response times for potential customers.

For CRM Test(Telegram):

Poultry AI Agent

Developed an AI-powered poultry assistant designed to provide farmers with guidance on poultry management, disease prevention, feeding practices, and farm operations.

Built conversational AI workflows that analyze user questions and generate context-aware recommendations using large language models and prompt engineering techniques.

Integrated automation and knowledge retrieval capabilities to deliver accurate, real-time support, helping poultry farmers make informed decisions and improve farm productivity.

LLM Evaluation and Reliability Study

- Conducted a structured evaluation of large language models using locally relevant and general reasoning questions.
- Analyzed model outputs for accuracy, hallucination patterns, and confidence mismatch.
- The study focused on understanding how model performance varies across different contexts and highlighted challenges in reliability and evaluation of LLMs in real world usage.

AI Camera Tracking and Counting system model

- Built a real time object detection system using OpenCV and the Ultralytics YOLO framework, capable of processing live video streams from webcams or IP cameras.
- Implemented object counting within defined regions and optimized the system for consistent performance across varying conditions.
- This project was applied to use cases such as attendance monitoring and detecting unfamiliar individuals, and helped me better understand how computer vision systems behave in real world environments.

AI Finance Agent

- Designed an AI-powered agent to assist with basic financial analysis and decision support.
- Focused on integrating data processing with intelligent reasoning to generate insights from financial inputs.

Bookkeeping Agent

- Built an automated bookkeeping assistant to help organize and manage financial records.
- Implemented logic for transaction categorization and structured data handling to improve efficiency in financial tracking.

Breast Cancer Classification using SVM

- Built a machine learning model using Support Vector Machines to classify breast cancer data.
- Performed data preprocessing, feature analysis, and model evaluation to assess performance using classification metrics and improve predictive accuracy.

Nigeria House Price Prediction using XGBoost

- Developed a regression model using XGBoost to predict house prices in Nigeria based on relevant features.
- Conducted data cleaning, feature engineering, and model tuning to improve prediction accuracy and understand key pricing factors.