

JOHN EVANS OKYERE

Accra, Ghana | +233 5449 54643 | johnevansokyere@gmail.com | [GitHub](#) | [Portfolio](#) | [LinkedIn](#)

Career Summary

AI/ML Engineer with 2+ years of experience designing, deploying, and scaling production-ready machine learning and automation solutions. Proficient with Python, NLP, and RAG architecture, with proven success building AI agents, recommendation engines (85% precision, 79% recall), and prediction models (89.45% accuracy). Delivered an AI Data Analyst agent in e-commerce that improved decision-making by 40%. Specializes in designing and deploying end-to-end ML pipelines, delivering production-ready solutions, and creating data-driven business strategies that drive measurable impact.

Education

C.K. Tedam University of Technology and Applied Sciences	Navrongo, Ghana
B.Sc Computer Science	February 2021 - August 2024
Dev4Tech (Developers Foundry)	Lagos, Nigeria
AI/ML Engineering Program	August 2025 - Present
Azubi Africa	Accra, Ghana
Data Analytics Training Program	July 2025 - September 2025

Work Experience

AI/ML Engineer Intern Remote	Mumbai, India
AI SoftDev (IT & Technology)	August 2025 - October 2025
<ul style="list-style-type: none">Developed an LLM-integrated LinkedIn posting agent with n8n, saving 3 hours daily by automating research and content generation.Designed an AI-enabled web app for content extraction and summarizing, cutting research time by 95%.Engineered a Prompt-to-JSON Enhancer (Render/Vercel), boosting AI response accuracy by 50% via structured prompt transformation.Deployed an AI-driven PDF generation tool with validation checks, improving content delivery accuracy by 30%.	
Data Analyst Hybrid	Accra, Ghana
Shaq Express (E-Commerce & Delivery Company)	September 2024 - September 2025
<ul style="list-style-type: none">Analyzed multi-source datasets to uncover growth drivers, increasing weekly orders from 500 → 700 (+40%).Automated product database sync with Python, enhancing Melcom data refresh efficiency by 70%.Deployed geospatial analytics dashboards to identify underserved areas and optimize delivery zones, driving an 80% increase in order volume.	

- Collaborated with 5 back-end developers to build a unified analytics dashboard (sales, vendors, payments), accelerating management's decision-making process
- Orchestrated onboarding strategies with a 10-member operations team, leveraging insights to boost sales by 90% in underserved markets

Projects Experience

Production RAG Document AI Agent

- Designed full MLOps pipeline, including authentication, CI/CD, and containerized deployment
- Integrated Supabase for chat/user tracking; backend on Render, frontend on Vercel
- Enabled users to query PDFs/CSVs and summarize documents, reducing manual search time by 50%

Bank Subscription Prediction

- Processed 49K+ banking records with 17 features, performing normalization, encoding, and class balancing with ADASYN, increasing minority class representation from 12% to 45%
- Evaluated Random Forest, XGBoost, Logistic Regression, and Decision Tree models, achieving best performance with Random Forest: 89.45% accuracy, 93.05% ROC-AUC
- Improved recall by 17% using XGBoost, minimizing false negatives and enhancing outreach strategies
- Hosted the pipeline via Streamlit web app for interactive predictions

Conversational AI Chatbot (NLP)

- Built backend with FastAPI and Dialogflow for booking, FAQs, and services
- Increased user engagement by 60%

Book Recommendation System

- Processed 210K+ ratings; implemented KNN, SVD, NMF, and Hybrid models
- Raised precision from 3% → 15% (400% increase) and recall by 6%
- Deployed live on Streamlit with full end-to-end pipeline

Skills

- **Programming & ML:** Python, PyTorch, Scikit-Learn, XGBoost, NLP, RAG, Regression, Classification, SVM, Neural Networks, Deep Learning, Ensemble Methods, Reinforcement Learning, Time Series Analysis
- **AI & Automation:** AI Agents, LangChain, n8n, Dialogflow, Chatbots, Recommendation Systems, Predictive Modeling, Model Optimization, Pipeline Automation
- **Deployment & MLOps:** FastAPI, Streamlit, Docker, CI/CD, Containerization, Cloud Deployment, Streamlit Web Apps, Model Monitoring, API Integration
- **Data & Analytics:** SQL, PostgreSQL, Supabase, Airflow, Data Cleaning, Feature Engineering, Data Transformation, Data Modeling, ETL Pipelines, Data Warehousing, KPI Monitoring, Reporting, Data Visualization, Tableau, Matplotlib, Seaborn
- **Cloud & Web Development:** AWS, Nextjs, React, Git, Version Control, CI/CD pipelines

- **Databases & Data Engineering:** MySQL, PostgreSQL, NoSQL, Query Optimization, Data Partitioning, Database Architecture, Data Governance, Data Quality

Certifications

- Data Analysis with Python – FreeCodeCamp
- Google Data Analytics – Coursera
- Intermediate Machine Learning – Kaggle
- AWS Cloud Practitioner Essentials – AWS

Leadership

- Welfare Chair – SRC, CKT-UTAS : Supported 5,000+ students
- General Secretary – NUPS-G Navrongo: Coordinated across 24 schools
- SRC Executive Council Member – CKT-UTAS