

ISAIAH OGOOLUWA BAKARE

Data Scientist | Machine Learning Engineer | AI Solutions Developer

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PROFESSIONAL SUMMARY

Results-driven Machine Learning Engineer and Data Scientist with 3+ years of experience delivering scalable AI solutions across e-commerce, healthcare, finance, and education sectors. Expertise in end-to-end ML pipeline development, predictive modeling, NLP applications, and LLM-powered systems using Python, TensorFlow, and Scikit-learn. Proven track record of driving business impact through data-driven insights, generating \$315K+ in revenue and reducing costs by \$1M+. Skilled in cross-functional collaboration, model deployment, full-stack development, and translating complex data into actionable strategies.

TECHNICAL SKILLS

Programming Languages:

Python, SQL, Node.js, JavaScript

Data Libraries:

Pandas, NumPy, Matplotlib, Seaborn

Tools & Platforms:

Power BI, Tableau, Streamlit, Git, Docker, FastAPI, React, APIs

Databases:

SQL, PostgreSQL, Supabase

ML/AI Frameworks:

TensorFlow, Keras, Scikit-learn, PyTorch, NLP

AI / LLM Tools:

OpenAI API, Anthropic API, Sentence Transformers, RAG Pipelines

Core Competencies:

Machine Learning, Deep Learning, Data Pipelines, EDA, Full-Stack Dev

PROFESSIONAL EXPERIENCE

Python Developer (AI Engineering)

Mar 2025 – Nov 2025

Educify Inc

- Engineered AI-powered student-teacher matching system using Python and ML algorithms, improving match accuracy by optimizing compatibility scoring models based on learning preferences and teaching styles
- Developed and integrated backend AI services and RESTful APIs to support intelligent automation workflows for educational platforms and sales AI systems, reducing manual processing time by 40%
- Implemented NLP-based features for automated content analysis and intelligent response generation, enhancing user engagement through contextual understanding and personalized recommendations
- Collaborated with cross-functional teams to design and deploy scalable database architectures supporting real-time AI decision-making systems and third-party API integrations

Data Scientist

Jan 2025 – Oct 2025

NdaraAI

- Built and deployed AI-powered solutions across multiple industries including e-commerce, healthcare, finance, and logistics, delivering data-driven insights that informed strategic business decisions
- Designed and implemented end-to-end data pipelines for ETL processes, performing comprehensive exploratory data analysis (EDA) to identify patterns, anomalies, and actionable insights from complex datasets
- Contributed to machine learning model development for product recommendation engines, demand forecasting, and predictive analytics, achieving 82%+ accuracy in classification tasks
- Partnered with product and engineering teams to deploy scalable, production-ready ML features aligned with business objectives, ensuring seamless integration with existing systems

Data Scientist

Jun 2022 – Mar 2023

Virtual Tribe

- Developed Random Forest classification model to predict customer attrition with 85% accuracy, implementing feature-based targeting strategies that improved retention rates by 12 basis points
- Collaborated with product and marketing teams to analyze user behavior patterns and customer journey data, identifying key interactions that increased service adoption by 18%
- Designed and deployed Python-based collaborative filtering recommendation engine, generating \$225K in incremental annual revenue through personalized product suggestions and increased user engagement
- Conducted statistical analysis and data modeling on prosthesis prototype performance data, delivering insights that optimized design specifications and saved \$1M+ in production costs

Data Analyst Intern

Jan 2022 – Oct 2022

Hamoye

- Executed cohort analysis and pricing optimization experiments with product managers, identifying strategic pricing adjustments that increased annual revenue by \$560K
- Created interactive Tableau dashboards for contractor scheduling and resource allocation, improving operational efficiency and reducing scheduling conflicts, resulting in \$90K annual cost savings
- Led A/B testing initiative for long-term pricing strategies across customer segments, increasing customer lifetime value (CLV) by 23% through data-driven pricing recommendations
- Automated monthly reporting workflows for client enrollments, service utilization metrics, and employee assignments, reducing report generation time by 60% while improving data accuracy

FEATURED PROJECTS

Assignify – Academic Management Platform

Founder · Full-Stack

- Founded and built a production full-stack academic management platform for Nigerian university lecturers, live at assignify.com.ng — covering assignment creation, student submissions, grading, multi-file uploads, and reporting
- Engineered end-to-end: React/TypeScript/Tailwind on Vercel, FastAPI/Python backend on Render, Supabase for database, auth, and storage
- Shipped production features including rate limiting, CORS lockdown, Cloudflare Turnstile CAPTCHA, branded transactional email via Resend, and a CBT exam module roadmap

AI Resume Matcher – LLM-Powered Application

LLM · RAG · Full-Stack

- Built a full-stack LLM-powered application to score and rank resumes against job descriptions using RAG pipeline architecture, vector similarity search, and NLP-based skill extraction
- Delivered ranked candidate recommendations with structured actionable feedback, demonstrating end-to-end production AI system design

GMC Intelligent Chatbot – NLP Chatbot (GOMYCODE Final Project)

NLP · TensorFlow · Streamlit

- Designed and trained an NLP-powered chatbot on an educational consultation dataset using TensorFlow/Keras, with intent classification, sentiment analysis, and named entity recognition (NER)
- Implemented full pipeline from data collection and preprocessing (tokenization, stemming, lemmatization) through model training with Adam optimizer to live Streamlit deployment

Financial Inclusion & Telecom Churn Prediction

ML · Classification · Streamlit

- Built a Financial Inclusion Prediction app using a trained classification model to predict bank account ownership across East African countries from demographic data, deployed on Streamlit
- Developed a Telecom Churn Prediction system using Random Forest with label-encoded categorical features and dynamic user input, achieving real-time prediction output via Streamlit interface

No-Show Appointment Prediction

ML · Healthcare

- Built a classification model to predict patient no-shows for medical appointments using real-world booking and demographic data, applying feature engineering and EDA to optimize predictive accuracy

Forage Simulations – BCG & British Airways

Certification

- BCG Data Science Simulation (Sept 2024): Random Forest model achieving 85% accuracy in customer churn prediction; delivered executive-level insights and actionable visualizations
- British Airways Virtual Program (Aug 2024): Web scraping, sentiment analysis on customer reviews, and predictive booking behavior classification model

EDUCATION

B.Sc. Mathematics

Lagos State University (LASU) – Lagos, Nigeria

Advanced Diploma in Data Science & Analysis

GOMYCODE – Lagos, Nigeria

Relevant Coursework: Machine Learning, Deep Learning, Python Programming, SQL Database Management, Statistical Analysis, Data Visualization (Power BI, Tableau)