

Ayomide Abayomi-Alli

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Professional Summary

Results-driven data scientist with experience in machine learning, NLP, business intelligence, and predictive analytics. I utilize data-driven insights to drive innovation, enhance decision-making, and develop sustainable products for businesses.

Core Skills

Programming & Version control: SQL, Python (Scikit-learn, Pytorch, Tensorflow), Slurm, Bash, Postman, Git, Github, Jax, Latex

Data Visualization & Analysis: Power BI, Tableau, MS Excel

Database & ETL: Google BigQuery, MySQL, Azure Synapse, PostgreSQL, MS SQL Server, MongoDB, GraphDB

Research Experience

Research Project Intern

April 2025 - August 2025

IRIT, Toulouse

Research Institute

- **Built a large-scale geospatial benchmark for LLM reasoning:** Defined core spatial relations (direction, topology, distance) and engineered automated pipelines to extract and structure nearly **1M RDF** triples into balanced datasets.
 - **Evaluated and analyzed state-of-the-art LLMs:** Applied zero-shot prompting to probe geographic reasoning, revealing key reasoning gaps and informing strategies for integrating explicit geospatial logic into model design
- Key technologies:** YAGO2geo | GraphDB | OCCIDATA | GeoSPARQL | Hugging Face | Linux server | [Link](#)

Project member

February 2023 - April 2023

Data and Artificial Intelligence (DART), FUNAAB

Research Institute

- **Curated a large dataset of Tweets on the 2023 Presidential Elections in Nigeria:** Conceptualized the project idea and retrieved election-related tweets using an API from Twitter (X) for NLP tasks.

Key technologies: Tweepy API | Python | [Link](#)

Lead Investigator

March 2021 - August 2023

Computer Science Department, FUNAAB

Bachelor's Thesis

- **Credit Card Fraud Detection Using Deep Learning Technique:** Conceptualized and executed a deep learning research project involving literature review and proposal writing, data analysis, model development, evaluation, and reporting of results.

Professional Experience

AI Systems Consultant

June 2025 - Present

ITCILO, Turin

International Development & Capacity Building (UN Agency)

- **Designed and deployed an AI agent to automate donor proposal drafting on Slack:** Led an end-to-end requirement gathering to build a strategic workflow and deployed an AI system that aims to **reduce 60%** reduction in proposal preparation time and improve inter-unit collaboration efficiency.

Key technologies: N8N (workflow automation) | Slack API | OpenAI API | Google API | HTML Scraper

Business Data Scientist

Jan 2024 - Feb 2025

Wema Bank, Lagos

Digital and Commercial Bank

- **Led the development of LLM chatbot:** Drove the end-to-end development of chatbot using Azure Function tools, OpenAI, and Flask API to improve access to real-time insights, contributing to the **5.5 million ATC** growth.
- **Implemented churn mitigation model:** Boosted liquidity, customer retention, and reactivated over 20,000 corporate accounts, contributing to a **NGN 2.29 trillion increase in customer deposits**.
- **Led user training and technical adoption:** Provided training to 500+ banking staff across multiple branches, achieving a **75%** user adoption rate for new BI solutions
- **Deployment and maintenance of the 'Wemawiki' AI chatbot:** Periodically updated and deployed data in the Azure container to production. Reducing operational turnaround time for **2,000+** customer-facing staff to foster a more efficient work environment.
- **Built customer segmentation clustering model:** Drove a **1,428%** increase in loans, and a **2,150%** rise in female SME transactions, contributing to a **NGN 1 trillion loan growth** in Q3, **61% of the total interest income** in Q2.

Key technologies: Azure OpenAI | SSMS | Azure ML | MongoDB | Advanced analytics | Postman | Git | Basic MLOps

Business Data Scientist

Oct 2022 - Dec 2023

Sparkle, Lagos

Financial Technology

- **Developed customer churn classification model and monitoring dashboard:** Partnered with the branding and marketing team, and delivered a churn project to track churn trends and increase customer retention by **31.33%**.
- **Proposed KPI-driven growth strategy for the savings platform:** Delivered an innovative, data-backed proposal to executive management, resulting in **over 800 new stash accounts** in 2023.
- **Designed a customer feedback and sentiment dashboard:** Scraped data from social media and CRM systems for sentiment analysis to identify recurring user pain points, increasing customer satisfaction scores by **48%** in six months.
- **Revamped existing ELT data pipelines:** Formulated comprehensive data validation rules, ensuring consistent data flow to Power BI reports; improved data quality scores by 30% within one quarter.

Key technologies: Python | MySQL | PostgreSQL | Google Bigquery | Power BI | Google Analytics | Freshdesk | ERP

Junior Data Analyst

Nov 2021 - Sept 2022

Dataport, Lagos

Consulting

- **Developed a financial monitoring dashboard:** To track income flow and ensure efficient financial controls, leading to

a **16.8%** increase in profit before taxes for the first half of 2022.

- **Built and managed Tableau BI reports:** To provide non-technical stakeholders with immediate access to necessary data, reducing manual reporting time by **15 hours** per week.

Key technologies: Tableau | Microsoft Excel | PowerPoint | MySQL | Microsoft 365

Education

Jean Monnet University, France

Master of Science - Machine Learning and Data Mining

2nd Year

Federal University of Agriculture, Abeokuta, Nigeria

Bachelor of Science - Computer Science

2021

Language Skills

English (Native), French (A1)

Social Impact & Volunteering

Graduate member, French Artificial Intelligence Association (AFIA)

2025 - Present

Member, She STEM in Africa (*Teach and encourage young STEM girls*)

2025 - Present

Analytics and Insights Lead, TLC Global

2023 - Present

Project Associate, Ocean Ambassadors Foundation (*For high school girls*)

2022 - Present

Secretary, Association of Computer Machinery Women, FUNAAB

2019 - 2021

(Led a 6-week coding boot camp to teach 19 female students data analytics with Excel and SQL)

Additional Skills

Generative AI, Web Scraping, Reporting & Documentation, Market Research, Strategic Planning & Storytelling, Statistical analysis, Verbal & Written communication, and Agile Project management.