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   **2nd Year**
Master of Science - Machine Learning and Data Mining

Federal University of Agriculture, Abeokuta, Nigeria   **2021**
Bachelor of Science - Computer Science

Language Skills
English (Native)**, French** (A1)

Social Impact & Volunteering
Graduate member, French Artificial Intelligence Association (AFIA)   **2025 - Present**
Member, She STEMin 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.