SAMUEL KAYODE AIKULOLA

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PROFILE

Data analyst and Assistant Vice President at Barclays with nearly 10 years' experience turning data into decisions across banking, consulting and the public sector. Builds Tableau dashboards, automates reporting with Alteryx and Python, and develops ETL pipelines across Oracle, Teradata, Databricks and PostgreSQL. Experienced in Financial Crime regulatory reporting, data quality reviews and supporting machine learning in production, with an MSc in Economics and a strong statistical background.

SKILLS

Data Visualisation & BI: Tableau, Power BI, Excel.

Data & Databases: SQL (Microsoft SQL Server, PostgreSQL, Teradata, Oracle), Python, Databricks, Alteryx, Firebase.

Statistics & Machine Learning: Regression, Random Forest, K-Means Clustering, Descriptive Statistics, EViews, SPSS.

Tools: Docker, Git, Linux, cron, Ollama, Jira, Confluence.

WORK EXPERIENCE

Barclays Bank **January 2023 – Present**

Business Insight and Analytics Senior Analyst (Assistant Vice President)

- Migrated manual reports to Tableau, delivering 30+ dashboards that cut reporting time and gave stakeholders self-service access to timely data.
- Designed and maintained Tableau dashboards tracking 10,000+ alerts daily across daily, weekly and monthly inventory, helping prevent SLA breaches for internal and external stakeholders.
- Supported the implementation of machine learning into the alert-working process by preparing and supplying the data it runs on, with the model now handling around 25% of cases worked.
- Built data pipelines in Databricks (Python and SQL) and Python ETL processes from Oracle to Teradata, moving cleaning and transformation upstream to deliver analysis-ready data and faster dashboards.
- Automated reporting with 15+ Alteryx workflows scheduled on the production server and Python scripts for data extraction, file generation and email delivery, saving over 1 hour daily.
- Responded to 30+ regulatory, audit and ad-hoc data requests monthly in Financial Crime (customer screening), supporting the bank’s compliance with regulators.
- Carried out 4-eye reviews of 20+ team reports monthly to assure data accuracy, and documented processes and workflows in Confluence.

ASK Infosystem **July 2022 – January 2023**

Data Specialist

- Built a legacy tracker for third-party client Verdiq Recycling Limited ahead of its website launch, and developed dashboards on top of it to report CO2 emissions averted.
- After launch, built ETL pipelines extracting data from Firebase and loading it into PostgreSQL, scheduled and automated with cron jobs on the ASK Infosystem server.
- Set up database user accounts, roles and access permissions to give stakeholders secure access to the data.
- Produced regular reports for client stakeholders and trained Verdiq staff on using the platform and dashboards.

Ministry of Industry, Trade, and Investment **January 2017 – July 2022**

Commercial Analyst / Officer

- Carried out monthly industry performance analysis to measure sector performance and identify sectors in need of increased investment.
- Developed monthly performance dashboards and reports to analyse and forecast performance across state sectors.
- Used data, statistics and analytics to help raise the state's internally generated revenue into the country's top 3 revenue-generating states.
- Designed and analysed quarterly surveys that informed new and improved commercial policies across the state.

Crux College of Health Technology **January 2015 – February 2016**

Data Analyst

- Developed student performance dashboards to measure and assess student performance across departments.
- Oversaw the analysis behind course performance dashboards, identifying high and low performing courses.
- Oversaw technical and administrative documentation across teams and clients.
- Led a team of 4 to digitise the college reporting system, making data easier to collect, store, process and analyse.

PERSONAL PROJECTS & INTERESTS

Home Lab Server – *self-hosted environment for data engineering, automation and AI experimentation*

- Designed and run a self-hosted home lab server, deploying and managing services in Docker containers.
- Host and run AI agents locally on open-source large language models using Ollama.
- Self-host databases and build scheduled ETL jobs and automation scripts, with all code version-controlled in Git.
- Build small machine learning models for predictive tasks, applying regression, random forest and k-means clustering.
- Built an AI-powered automation that generates personalised bedtime stories for my son.

Nigeria Data Intelligence – *public electoral and population research platform (ndi.samuelaikulola.com)*

- Built a Python platform presenting 2023 PVC collection by state, a 2026/2027 PVC tracker and population scenarios to 2040.
- Automated daily monitoring of official INEC sources with change detection and alerting, publishing figures only after verification.
- Publish a daily static copy to Cloudflare Pages, keeping the home server closed to inbound traffic.

Cyber Threat Intelligence Observatory and Databricks lakehouse – *in progress*

- Building incremental Python ETL from URLhaus, ThreatFox, CISA KEV and NIST NVD into a PostgreSQL warehouse (bronze, silver, gold), scheduled with cron and monitored with Grafana.
- Building a weekly Databricks pipeline with PySpark, Delta Lake and MERGE in a medallion architecture, with data quality checks.

EDUCATION

University of Ibadan **04/2018**
Master of Science in Economics

- Relevant Coursework: Econometrics, Statistics, Research Methodology.

Bowen University **07/2014**
Bachelor of Science in Economics

- Grade: Second Class Upper (2:1).
- Relevant Coursework: Research Methodology, Econometrics, Applied Statistics, Microeconomics, Macroeconomics.

TRAINING AND CERTIFICATIONS

- Data Analysis with Python – IBM
- Python for Data Science, AI and Development – IBM
- Databases and SQL for Data Science with Python – IBM
- Complete Python Bootcamp – Udemy
- SQL – Udemy
- Tableau – Udemy
- Google Analytics 4 (GA4) – Google Analytics Academy