

Saheed Damilola Adewoye

ESG Data Analyst | Energy Analytics Engineer

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SUMMARY

Impact-driven Data Analyst specializing in ESG analytics and Energy Systems. Expert in building end-to-end ELT pipelines and modeling carbon emissions using Python, SQL, dbt, and Power BI. Proven track record of transforming complex environmental data into production-ready dashboards that drive net-zero strategies and regulatory compliance.

TECHNICAL SKILLS

- **Data Analytics & Modeling:** Data Modeling, Data Wrangling, Excel, Hypothesis Testing, MySQL, PostgreSQL
- **Data Visualization & Reporting:** Looker, Power BI, Streamlit, Tableau
- **Technical & Engineering:** Cloud Computing, Docker, Ingestion Pipelines, Huawei Cloud Services, Python (Pandas, NumPy, Matplotlib, Seaborn), Schema Validation
- **ESG & Energy:** Carbon Accounting (Scope 2), Grid Intensity Tracking, Voluntary Carbon Markets, Geospatial Analysis.

PROJECTS

GridWatch: Heavy Industry Load Optimization Platform | Python, dbt, PostgreSQL, Streamlit

- Engineered an automated ELT pipeline using GitHub Actions to ingest real-time data from the National Grid ESO API, enabling industries to reduce Scope 2 emissions by identifying "Super Green" production windows (>15% carbon savings).
- Modeled dynamic "Go/No-Go" signals using dbt and SQL window functions and deployed a Streamlit dashboard for operators to quantify specific CO₂ reductions (kg) and optimize energy scheduling.

Carbon Market Intelligence Dashboard | Python, Pandas, Streamlit

- Built a market intelligence tool analyzing 30,000+ transaction records from the Verra Registry to track Voluntary Carbon Market (VCM) trends, implementing a validation pipeline to standardize fragmented data and correct logic errors.
- Designed algorithms to rank corporate buyers and visualize retirement portfolios, revealing demand trends for Nature-based vs. Renewable Energy credits to drive strategic insights.

Lagos State Rooftop Solar Potential | Power BI, Python, GeoJSON

- Conducted a geospatial feasibility study processing 1.5 million data points to assess rooftop solar energy potential across Lagos State.
- Integrated GeoJSON boundary data with solar irradiance metrics in Power BI to create interactive heat maps identifying optimal zones for decentralized grid investments.

PROFESSIONAL EXPERIENCE

Lead Academic Instructor (Data Analytics) | Insights Data Academy, Nigeria

February 2025 – Present

- Lead advanced training on SQL, Python, and Data Engineering for 40+ learners, achieving 100% project reproducibility through strict data quality standards.
- Design simulation labs mirroring real-world analytics workflows, including Excel-to-SQL ingestion and complex data modeling.

Data Science Intern | ALX - Africa

May 2024 – May 2025

- Engineered Dockerized analytics environments and validation-layered Power BI dashboards, transforming messy datasets into product-oriented insights that reduced reporting inconsistencies by 20%.
- Ensured 99% downstream data reliability and consistent reproducibility by performing Root Cause Analysis on pipeline failures and documenting technical assumptions.

Data Analyst | HNG

July 2024 – August 2024

- Optimized MySQL database architecture and query performance, improving data accessibility for engineering teams by 30%.
- Executed hypothesis testing on large-scale datasets to support executive trend analysis and product development cycles.

EDUCATION & CERTIFICATIONS

- B.Eng. Mechanical Engineering | Ahmadu Bello University, Nigeria September 2025
- **Certifications:** Data Analyst ([Datacamp](#)), HCIP-Storage ([Huawei](#)), HCIA-Cloud Service ([Huawei](#))