

# Saheed Damilola Adewoye

Climate & Carbon Data Analyst

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## SUMMARY

Climate-focused Data Analyst with experience analyzing large sustainability, geospatial, and emissions datasets to produce clear, decision-ready insights. Strong background in data visualization, statistical analysis, and education-focused storytelling. Experienced in translating complex environmental data into accessible insights that support public understanding and informed climate choices.

## TECHNICAL SKILLS

- **Data Analytics & Statistics:** Python (Pandas, NumPy), SQL (PostgreSQL, MySQL), Data Cleaning & Wrangling, Exploratory Data Analysis (EDA), Hypothesis Testing
  - **Data Visualization & Storytelling:** Looker, Power BI, Streamlit, Tableau, Data Storytelling for Non-Technical Audiences
  - **Climate & Environmental Analytics:** Carbon & GHG Emissions Analysis, Environmental Impact Metrics & Supply Chain Data, Climate Impact Metrics, Sustainability & ESG Reporting

## 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 CO<sub>2</sub> 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
- **Certifications:** Data Analyst ([Datacamp](#)), HCIP-Storage ([Huawei](#)), HCIA-Cloud Service ([Huawei](#))