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_2 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)