EMMANUEL OWUSU, BSc, MSc, A.Ag

DATA ANALYST — POWER BI — SQL — PYTHON — R — EXCEL — GIS

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PROFESSIONAL SUMMARY

Data Analyst with experience working with environmental, operational, sustainability, and field-based datasets. M.Sc. in Economics with training in Applied Econometrics, statistical analysis, quantitative methods, and economic modelling. Hands-on experience with Power BI, SQL, Python, R, Excel, Power Query, DAX, GIS, EQWin, EQuIS, and Nektar.io for data cleaning, QA/QC, analysis, modelling, visualization, and reporting. Additional experience supporting Microsoft 365 environments, identity and access management, authentication, security controls, and technical troubleshooting. Combines quantitative training with practical industry experience to transform complex data into actionable business and operational insights.

TECHNICAL SKILLS

Data Analysis: SQL, Python, R, Excel, Power Query, Applied Econometrics, Statistics, EDA, Regression Analysis
BI & Visualization: Power BI, DAX, Data Modeling, KPI Development, Tableau
Data Management: ETL, Data Cleaning, QA/QC, Data Validation, Relational Data, Reporting Automation
Technical & Cloud Support: Microsoft 365, IAM, MFA, Authentication, Access Controls, Security Support, Audit Logs, Technical Troubleshooting
Domain Tools: GIS, Nektar.io, EQWin, EQuIS, ESG, GHG Data, Environmental Compliance

PROFESSIONAL EXPERIENCE

Utility Vegetation Analyst — Prairie Land Forest Services *Apr 2025 – Sept 2026*
Saskatoon, SK

- Collected, structured, validated, and analyzed field datasets from vegetation assessments across 100+ km of transmission corridors.
- Used GIS, Nektar.io, Excel, and Power BI to organize inspection data, develop risk indicators, monitor work, and support operational reporting.
- Performed data QA/QC, identifying missing, inconsistent, duplicate, and anomalous records before reporting.
- Supported workflow automation and standardized reporting to improve data accessibility and operational decision-making.

Sustainability Data Analyst — Nedjinels Group Limited *Jan 2023 – Feb 2025*
Ghana

- Developed Excel, Power BI, and analytical tools to monitor sustainability indicators, emissions performance, waste reduction, and environmental objectives.
- Used SQL and Python to clean, validate, analyze, and visualize environmental datasets, improving reporting accuracy and efficiency.
- Conducted environmental audits in support of ISO 14001 environmental management system compliance and certification activities.
- Prepared sustainability reports using the GRI framework, environmental performance summaries, and stakeholder communication materials.

EHS Officer — AngloGold Ashanti Obuasi Mines Ltd. *Jan 2020 – Dec 2022*
Obuasi, Ghana

- Managed and maintained water-quality monitoring data in EQWin, ensuring accurate and consistent entry of field and laboratory results.
- Performed data validation and QA/QC checks to identify missing values, duplicates, transcription errors, abnormal results, and inconsistencies.
- Managed historical datasets and facilitated migration of legacy water-monitoring records into structured EQWin databases.
- Supported regulatory and environmental compliance reporting by maintaining complete, accurate, and traceable monitoring records.
- Facilitated more than 200 environmental toolbox meetings, supporting employee awareness and contributing to a reported 20% reduction in incidents.

Microsoft 365 Technical Support Engineer — Shanghai Wicresoft Co., Ltd. *Sept 2017 – Nov 2019*
Shanghai, China

- Supported secure Microsoft 365 environments, focusing on identity and access management (IAM) and multi-factor authentication (MFA) enforcement.
- Resolved account compromise and authentication issues using security best practices and established troubleshooting procedures.
- Assisted in implementing access controls to protect sensitive organizational data and support secure cloud operations.

- Maintained audit logs, technical documentation, and support records aligned with internal security and compliance policies.
- Collaborated with IT and security teams to troubleshoot technical issues and support secure Microsoft 365 cloud deployments.

SELECTED DATA ANALYTICS PROJECTS

Snow Removal Operations Dashboard — Power BI • Power Query • DAX • Data Modeling
Analyzed snowfall, crew productivity, service completion, equipment utilization, costs, and operational KPIs through an interactive dashboard.

Landscape Maintenance Operations Analysis — Power BI • Excel • Power Query
Analyzed crew scheduling, labor utilization, production rates, job costing, completion rates, and profitability to identify operational performance patterns.

Corporate ESG Performance Analysis — Power BI • Excel • DAX
Analyzed GHG emissions, energy, water, waste, biodiversity, land disturbance, and sustainability KPIs to evaluate corporate environmental performance.

Forest Carbon Sequestration Analysis — Python • Pandas • Matplotlib
Cleaned, transformed, analyzed, and visualized forest carbon data to evaluate carbon-storage and sequestration trends.

HR Analytics Dashboard — Power BI • Excel • DAX • Data Modeling
Analyzed workforce demographics, turnover, attrition, hiring, and employee trends through interactive HR KPI dashboards.

Bike-Share Marketing Campaign Analysis — R • Statistics • Data Visualization
Performed exploratory and statistical analysis of member and casual-rider behaviour to identify usage patterns and marketing opportunities.

EDUCATION

M.Sc. Economics — Anhui University of Technology *2015 – 2017*
China

Relevant Training: Applied Econometrics, Statistics, Quantitative Methods, Economic Modelling, Research Methods
Thesis: Cost-Benefit Analysis of Ecological Restoration in Ghana

B.Sc. Land Reclamation & Rehabilitation — Kwame Nkrumah University of Science & Technology *2008 – 2012*
Ghana

Relevant Training: GIS, EQWin
Thesis: Assessing *Jatropha spp.* Effects on Arsenic Levels at a Reclaimed Mine Site Using EQWin

CERTIFICATIONS

Google Data Analytics • ISO 21500 Project Management • ISO 50001 Energy Management • WHMIS • Saskatchewan Construction Safety