



## EBENEZER KWAU

### Data Analytics & Monitoring Systems Specialist (Public Sector Focus)

 Location: Ghana (Willing to relocate)

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 Portfolio [Ebenezer portfolio](#)

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## PROFESSIONAL SUMMARY

Data Analytics and Monitoring Systems Specialist with over 8 years of progressive experience strengthening public sector monitoring, evaluation, and digital reporting systems within Ghana's health sector. Proven expertise in structured dataset design, indicator tracking frameworks, dashboard development, and digital data pipelines from primary collection tools (facility registers, Kobo-Collect) to national reporting platforms (DHIMS).

Experienced in improving system workflows, enhancing data quality processes, and translating complex datasets into actionable insights for programmatic and policy decision-making. Combines strong public health systems knowledge with advanced analytics skills (Python, SQL, Power BI, Streamlit) to build data-driven decision-support tools.

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## CORE COMPETENCIES

- Monitoring & Evaluation Systems Strengthening
- Indicator Framework Design (SDG-aligned reporting exposure)
- Data Pipeline Optimization (Primary → DHIMS → Reporting Templates)
- Dashboard Development & Data Visualization
- Structured Dataset Management
- Digital Platform Enhancement & Process Improvement
- Data Quality Audits & Validation Systems
- Predictive Analytics & Decision-Support Tools
- Technical Documentation & SOP Development
- Stakeholder Training & Institutional Capacity Building

## PROFESSIONAL EXPERIENCE

### District Nutrition Officer / Public Health Officer

Ghana Health Service | Ghana

2021 – Date

- Strengthened district-level monitoring systems supporting immunization, nutrition, maternal health, and outbreak preparedness indicators.
- Oversaw data flow from primary data sources (facility registers and community tools) to secondary reporting formats and DHIMS submission.
- Designed structured reporting templates and verification tools to improve completeness, accuracy, and timeliness of data reporting.
- Conducted routine data validation and performance analysis to identify service delivery gaps and recommend corrective actions.
- Developed SOPs and monitoring tools that improved data quality assurance processes across health facilities.
- Produced analytical reports used by regional and national authorities for planning, budgeting, and policy alignment.
- Facilitated review meetings to translate monitoring data into actionable programmatic decisions.
- Contributed to district outbreak response monitoring and emergency preparedness analytics.

**Impact:** Improved reporting consistency and strengthened district data use culture for decision-making.

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### IPTp Programme Coordinator (District Representative)

RootsLink Africa – Malaria Elimination Programme | Ghana

2023 – Present

- Design and continuously optimize a Kobo-Collect-based Monitoring & Evaluation (M&E) system enabling real-time tracking of IPTp service delivery indicators.
- Develop and maintain structured datasets and performance dashboards to support district-level program monitoring and decision-making.
- Conduct routine trend analysis and performance reviews to identify coverage gaps, service delivery disparities, and data quality issues.
- Prepare evidence-based district analytical reports used by the National Malaria Elimination Programme (NMEP) to inform policy refinement and strategic planning.
- Train and supervise volunteers and frontline health workers on digital data collection tools, indicator definitions, and standardized reporting protocols.

- Strengthen documentation workflows and continuously standardize reporting processes to improve data consistency and accountability.
  - **Ongoing Impact:** Improving digital monitoring efficiency, strengthening data quality assurance, and enhancing the timeliness and reliability of malaria intervention reporting.
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## Machine Learning & Data Analytics Intern

### Thrive Africa – Future of Work (Remote)

Sept 2025 – Dec 2025

- Developed and deployed a Transformer-based text classification model (Distil BERT) for structured decision-support applications.
  - Built APIs and dashboard interfaces (Streamlit, Fast API) for integrating analytics into user-friendly platforms.
  - Applied version control and CI/CD workflows to ensure structured digital product deployment.
  - Translated analytical outputs into executive-ready summaries for stakeholders.
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## DIGITAL & ANALYTICS PROJECTS

### Epidemiological Surveillance Dashboard (SurveilAI – MVP)

- Designed a digital surveillance platform supporting case reporting, geospatial mapping (shapefile-based district mapping), and DBSCAN hotspot detection.
  - Integrated structured datasets with automated data storage (SQLite) and role-based access architecture.
  - Built scaffolds for risk scoring models to support outbreak prediction.
  - Demonstrated integration of analytics into monitoring systems for public health decision support. [| Survelai-APP |](#)
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### ITN Usage Prediction & Policy Simulation App

- Built a predictive analytics model forecasting mosquito net usage behavior.
  - Developed an interactive Streamlit dashboard with scenario simulation for intervention planning.
  - Enabled bulk data uploads for program-level forecasting and segmentation. [| ITN-APP |](#)
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## **Post-Caesarean Pain Decision Support Dashboard**

- Developed a Random Forest-based clinical risk classification system.
  - Integrated interactive dashboards for real-time risk assessment and visualization. | [Post-CS-APP |](#)
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## **EDUCATION**

### **BSc. Public Health (Community Nutrition)**

University for Development Studies | Ghana | July 2016

Huni-valley Senior High School | Ghana | May 2011

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## **CERTIFICATIONS & TRAINING**

Monitoring & Evaluation in Global Health – University of Washington | 2023

Project Management in Global Health – University of Washington | 2023

Data Science Certificate – Thrive Africa / Koforidua Technical University | 2025

Machine Learning & AI Certificate – Thrive Africa / Koforidua Technical University | 2025

introduction to Python -Data Camp (2025)

Intermediate Python - Data Camp

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## **SOFTWARE & TOOLS**

### **Research & Documentation:**

Microsoft Excel, Kobo Collect, Power BI, SQL, Google Workspace

### **Data & Documentation:**

Python (Pandas), SQL, Streamlit (for Analytics and Dashboard)

### **Communications & Media:**

Canva, Meta Business Suite, LinkedIn, Facebook, Instagram, Newsletter platforms, social media scheduling tools

### **Analytics & Monitoring:**

Google Analytics, Meta Insights, Performance dashboards

### **Collaboration & Virtual Work:**

Zoom, Google Meet, Slack, Trello, Microsoft Teams, Remote team coordination tools

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## **Community Advocacy & Behaviour Change Campaigns**

Designed communication campaigns and stakeholder engagement strategies to strengthen community participation and public awareness initiatives.

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## REFERENCES

Mr. Shadrack Aidoo

Agona East District Health Directorate

Ag District Director of Health Services [Shadrack.aidoo@ghs.gov.gh](mailto:Shadrack.aidoo@ghs.gov.gh)

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Shadrack Darku

Data Scientist || Machine Learning || Data Engineering || Cloud Engineering || MLOPS ||  
Terraform || CICD || Kubernetes || DevSecOps || Application Security || Automation Expert

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