

Abubakari Sherifdeen

Kanvili-Kpawumo, Tamale, Northern Region - Ghana

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Career Objective

Results-driven Data Scientist and Analyst with a strong background in **data management, knowledge systems, and strategic decision-making**. Skilled in **data collection, processing, analysis, and visualization** to drive **evidence-based decision-making**. Passionate about leveraging data science techniques to optimize business processes, monitor project impact, and develop insights that improve efficiency and outcomes. Adept at working with **SQL, R, Excel, Python, Power BI, and statistical modeling**, with experience in **monitoring and evaluation, digital transformation, and knowledge management**. Seeking to apply analytical expertise in a **data-driven role** that enhances organizational performance and innovation.

Professional Experience

Consultancy - Development of Management Information System and Data Strategy for the Affordable Agriculture for Resilient Rural Development Project (AAFORD).

June 2025 – Date

Developed a comprehensive Management Information System (MIS) to support the AAFORD Project in the middle belt and northern Ghana, aimed at monitoring and enhancing outcomes for over 40,000 beneficiary households.

- **System Architecture:** Developed a scalable, web-based client-server application using a modern technology stack, including a **React** frontend, **Node.js/Express.js** backend, and a **MySQL** relational database to ensure data integrity and performance.
- **Data Integration & ETL:** Designed a robust ETL (Extract, Transform, Load) process using **Python and Pandas** to integrate, clean, and synchronize beneficiary data in real-time from KoBoToolbox via a custom-built API, ensuring high data quality.
- **Beneficiary Tracking & ID System:** Engineered a core feature for generating unique QR codes for 40,000+ beneficiaries to enable real-time, accurate tracking of participation in training sessions, eliminating double counting and manual data entry errors.
- **API Development:** Mapped out and specified a comprehensive suite of RESTful API endpoints to manage all aspects of the system, including beneficiary data, training sessions, attendance, and user management.
- **BI & Reporting:** Designed an API-driven data pipeline to feed real-time analytics into **Power BI dashboards**, providing management with actionable insights on beneficiary engagement, dis-aggregated by gender, age, and location.

- **Security & Compliance:** Integrated end-to-end security protocols, including role-based access control (RBAC), data encryption at rest and in transit, and secure API endpoints to ensure compliance with data protection regulations.
- **Deployment & Scalability:** Outlined a cloud-first deployment strategy using containerization (**Docker**) to ensure consistent environments and scalability for future growth in beneficiary numbers and data volume.

CARE Ghana | Tamale, Ghana

Knowledge Management and Learning Manager (USAID SAGES Systems Strengthening Activity)

Nov 2023 – Present

- Designed and implemented a **data-driven Knowledge Management and Learning Strategy** based on the **USAID CLA Framework**.
 - Developed **data collection and analysis tools** to monitor project performance and improve knowledge-sharing processes.
 - Integrated **Microsoft SharePoint and a web-based MIS** for efficient **data storage, retrieval, and analysis**.
 - Led multi-stakeholder learning events using **data visualization and insights** to inform decision-making.
 - Established **protocols for data documentation and reporting**, ensuring compliance with **USAID and CARE** guidelines.
 - Conducted **data analysis** to track project outcomes and effectiveness.
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International Potato Center | Tamale, Ghana

Knowledge Management Analyst

July 2022 – Nov 2023

- Developed and executed a **data and knowledge management strategy**, improving research accessibility and utilization.
 - Designed and implemented a **digital monitoring system**, integrating **QR Code-based tracking** for project participants.
 - Trained research staff on **data structuring, management, and archival best practices**.
 - Conducted **data analysis and visualization** to support research findings and decision-making.
 - Automated **data reporting workflows**, improving efficiency and accuracy in project evaluations.
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GIZ Ghana | Wa, Ghana

Advisor – Monitoring and Evaluation / Digitalization

Nov 2018 – July 2022

- Developed **automated dashboards and data visualization tools** to improve monitoring and evaluation (M&E) reporting.
 - Designed and implemented **M&E frameworks**, aligning project performance with strategic goals.
 - Utilized **ODK, KoboToolbox, and Power BI** for real-time data collection and analysis.
 - Automated **80% of the M&E processes**, reducing manual reporting efforts and improving efficiency.
 - Led **data quality assurance processes**, ensuring accuracy, consistency, and reliability of project data.
 - Provided **data-driven insights** for donor and partner reporting, enhancing decision-making.
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Solutions360 Limited | Accra, Ghana

IT Support Assistant

Mar 2014 – May 2017

- Conducted performance tests and troubleshooting on **ICT equipment** to ensure system efficiency.
 - Installed, configured, and maintained **secure computing hardware and software**.
 - Provided **technical support for data management systems**, ensuring smooth operations.
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Education

- **Bachelor of Science in Data Science** – IU International University of Applied Science, Germany (*Sep 2020 - September 2023*).
 - **Higher National Diploma in Information and Communication Technology** – Wa Polytechnic, Ghana (*Sept 2009 - Jul 2012*).
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Technical Skills

- **Programming Languages:** Python, R, SQL, PHP, JavaScript (React, Node.js), Dart (Flutter)
- **Data Analysis & Visualization:** Power BI, Excel, Tableau, Looker Studio
- **Database Management:** MySQL, SQLite
- **Monitoring & Evaluation Tools:** ODK, KoboToolbox, SurveyCTO

- **Knowledge & Content Management:** Microsoft 365, SharePoint, Document360, Confluence
 - **Machine Learning & Statistical Analysis:** Pandas, NumPy, Scikit-learn, Regression Models
 - **Process Automation & Digital Transformation**
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Certifications

- **SQL for Data Analysis** – LinkedIn Learning (2023)
 - **Power BI Specialist** – LinkedIn Learning (2023)
 - **Google Data Analytics Professional Certificate** - Coursera (2025)
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Professional References

- **Wilfred Haruna** – Head of Operations, Catholic Relief Services
- **Christiana Asante Nkansah** – Senior Strategic Communications Specialist, GB Foods