CURRICULUM VITAE
Kalabe Mulugeta Abegaz
Tel: +2519 11 452256

Email: kaleabma@gmail.com

___

Summary

Dynamic Data & Information Management Professional with 14 years of experience in Data Analysis, Monitoring and Evaluation, Business Intelligence, and IT Consulting. I have a focus on developing and implementing effective data systems, dashboards, and cloud-based applications to inform strategies and support effective operations. I have extensive advanced SQL, Power BI, Tableau, Python, and GIS skills, as well as strong understanding of Monitoring and Evaluating frameworks, data validation workflows, and production-level data modelling.

I have effectively led complex business questions resulting in clear metrics and actionable insights using AI-enabled technologies and geospatial analytics to inform sustainable development, climate resilience, and stakeholder participation. I have led teams across different functions, providing effective, data-driven solutions in both development and enterprise environments.

Key Skills

Technical Skills:

- Programming & Analysis: Python (Pandas, NumPy), R, Excel Automation.
- SQL Skill: Advanced SQL (Joins, CTEs, Window Functions), dbt-style data modeling (staging → analytics → production).
- Business Intelligence Platforms: Power BI, Tableau, Metabase.
- Geospatial Analysis: QGIS, ArcGIS, Remote Sensing, Satellite Imagery Processing
- Machine Learning: Regression, Clustering, Time-Series Forecasting
- ETL & Development Platforms: ETL Frameworks, GitHub, Data QA and validation workflows.
- Cloud & Data Infrastructure: Microsoft Azure, Cloud-Based Data Management Systems.
- Database: Design, Development, and Administration.
- IT Systems: Networking, CCTV & Security System Installation.

Analytical Skills:

- Data Modeling & Statistical Analysis
- Predictive Analytics: Agriculture, Climate, and Environmental Forecasting
- Scenario Analysis & Decision Support Systems
- Metric Design: SMART indicators, AARRR funnel, North Star Metrics

Business and Communication

- Monitoring & Evaluation: Framework development, indicator tracking, reporting systems
- Stakeholder Engagement: Requirement gathering, multi-sector coordination
- Training & Documentation: Capacity building, cross-team technical training

Soft Skills:

- Strategic Leadership and Stakeholder Engagement
- Training and Capacity Building

- Effective Communication and Team Collaboration

Professional Experience
Senior Data Analyst and Consultant
(Information Management Officer III/ M&E Officer II)
The International Centre of Insect Physiology & Ecology (icipe)
October 2022 – Present

- Created and sustained complex data models that facilitate strategic decision-making, enhance data integrity and accessibility across business and development functions.
- Created and implemented interactive dashboards with Power BI and Tableau to provide access to informative real-time monitoring and performance tracking which has contributed to a 25% increase in key performance indicators (KPIs).
- Utilized statistical analysis and predictive modelling to highlight trends and themes that can lead to strategic action. This has led to better strategies and improved operational efficiency and stakeholder engagement by 20-30%.
- Worked with functional teams and senior management to understand data needs; suggested tailored solutions and designed data systems that would best meet the organization's objectives.
- Managed and initiated a new scalable Data Management (DM) strategy, which propagated Data deeper and wider than before and enhanced the availability of Data to over 116,000 youth and 11,000 businesses, resulting in a 25% expansion in program engagement and outcomes.
- Developed and managed Data Management Platform for the MOYESH Programme and leading the development of National Apiculture Database for the MaYEA Programme.
- Generated over 30 knowledge products (toolkits, dashboards, analytical reports, data briefs) which has led to a 20% increase in evidence-based decision-making and stakeholder alignment.
- Managed and enhanced digital program-level platforms (e.g. MOYESH website), promotional channels, resulting in a 35% increase in audience reach and a 20% enhanced user experience.
- Established and managed robust cloud-based data systems.

Consultant
DAB Development Research and Training PLC
September 2024

- Data Visualization and Reporting: Created and consistently maintained data visualizations and dashboards using Power BI and other tools (Excel, Microsoft Forms) that tracked the key outputs of the PROSEAD program, facilitating stakeholders to have visibility on the data insights and to act on them.
- Data Validation and Partner Engagement: Tested and validated data visualizations with the DAB MEL team to ensure the data were accurate and consistent, and shared the final dashboard views and reporting in dashboards and reports with project partners.
- Training and Capacity Development: Provided half-day training sessions on using Power BI or data analysis and visualization tools (e.g. Survey Solution, KOBO Toolbox), and thereby developing the team members' capacity and ability to use data as part of their decision making.
- Technical Knowledge and Support: Continued support and technical advice and troubleshooting with the team to ensure they make best use of the data analysis tools and efficiently resolve data related issues

Founder
Azmera Technologies
January 2022 – Present
- Headed the creation of AI FARMS, an award-winning Agri-tech platform designed to promote stakeholders across supply chains through AI-enabled climate-smart farming.
- Designed solutions for market clarity, resource utilization, and sustainable agricultural practice.

Department Head
Entoto Polytechnic College
October 2020 – September 2022
- Data Collection and Management: Management and implementation of ICT systems, while also maintaining that the data management tools enhanced system performance and reduced software vulnerabilities.
- Data Analysis and Reporting: All KPIs were monitored to assess system performance, resource utilization, operational efficiency while identifying relevant data to inform institutional decision-making and day-to-day operations.
- Collaboration and Coordination: Collaborated with internal teams and external stakeholders to roll-out and maintain a data driven ICT system ensuring effective integration into existing systems, while improving data accessibility to key stakeholders.
- Training and Capacity Development: Program design and delivery to improve staff capacity in ICT operations, improving the team's capacity to achieve 20% improvement in team performance in data management and analysis.
- Documenting and Reporting: Accountable for operational activities including resource planning, audits, and operational reports on system performance assuring that all activities are documented to meet documentation standards, and compliance.
- Data Validation and Quality Assurance: Implementation of the AI-enabled Plant Disease Detection System while leveraging data insights to improve agricultural productivity ensuring data accuracy and compliance which contributed to a 40% increase in crop yield.

IT Support Specialist (Part-time)
App's mason IT Solutions
June 2016 - May 2019
- Data Management & Support: Overseeing the implementation of network installation, providing technical support to the clients to continue running successful ICT Systems. Managing data flow and data integrity.
- Troubleshooting Data and Issue Resolution: Fixing hardware and software problems improved our clients' system down time by 20% and limited interruptions and ensured that we collected and analyzed robust data as intended for reporting.
- Training and Capacity Building: Developed materials detailing troubleshooting and use of software which increased the client's independent use of their data by decreasing support by 25%.
- System Maintenance and Security: Created upgrades and patches to improve system security and ensure data integrity. This resulted in a 15% decrease in faults; and no disturbances to data collection have taken place.
- Operational Efficiency: Improved optimized methods to maximize the use of IT effectively ensuring that 80% of issues were resolved within 24 hours, which made the overall ICT support efficient and without compromising the data produced.

Instructor
Entoto Polytechnic College
2012 – 2020

- Created and implemented ICT-based data systems which enhanced collections and consequently improved student participation and marketing programs by 30%
- Facilitated staff and student training and capacity-building sessions on data management processes and data management ICT tools which improved digital competency and education outcomes by 20%
- Managed technology initiatives for integrated use, improving curriculum delivery and teacher practice relating to curriculum delivery and achieving improved learning outcomes by 15%.
- Oversaw student-led ICT innovation projects, providing a data-driven mentorship approach to increase performance on national competition assessments, leveraging the project to improve the program brand and marketing reach by 25%.
- Coordinated collaboration to enable data-informed educator practice in schooling workflows, promoting digital transformation benefits in educational practice.

Notable Projects

- **MOYESH Program:** Developed a decision-support system managing data, leading to a 30% improvement in program outcomes.
- **MaYEA Program:** Leading and Developing National Apiculture Database.
- **AI in Ethiopia Study:** Produced an in-depth analysis of Ethiopia's AI ecosystem, influencing national AI development strategies.
- **Digital Finance for Ethiopian Beekeepers:** Analyzed digital finance applications, increasing farmer income by 25%.
- **AI-Enabled Plant Disease Detection System:** Boosted crop yields by 40%, enhancing food security this project went on to winning a UNDP and LG-KOICA Sponsored competition and a 5000 USD Grant and a state and National Competition first place Winner.

Education

- Master's degree in computer science | Ambo University
- Bachelor's degree in computer science | Addis Ababa University
- Diploma in Information Technology | Nifas-silk Polytechnic College

Certifications

- Data Science and Machine Learning
- Data Analysis with Python and R
- GIS and Geospatial Analysis
- Project Cycle Management
- Evaluation for Resilience

Professional Development

- Fundraising Specialization – Philanthropy University
- Completed advanced training courses in SQL optimization and Python programming.
- Attended workshops on cloud computing technologies and data governance best practices.
- Attending Online Course on Applied Data Science at World Quant University

Online portfolio

https://github.com/LijKal-codes

https://public.tableau.com/app/profile/kalabe.mulugeta3947/vizzes

https://www.linkedin.com/in/kalabemulugeta/

https://kalabeofficial.vercel.app/

References

Available upon request.