

## Kalabe Mulugeta Abegaz

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### Summary

Full-stack data analyst and business intelligence specialist with over 14 years of experience in data system design, dashboard creation, and advancing data-driven decision-making. Highly proficient in advanced SQL (joins, CTEs, windows), dashboard development (Power BI, Tableau), and data validation workflows. A proven track record communicating business questions as clear metrics and visualizations, designing data to be in a production-like structure, and with experience in M&E frameworks, cloud-based data management systems, and collaborating across functions in development and enterprise.

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### Key Skills

#### Technical Skills:

- SQL (Joins, CTEs, Windows)
- Data modeling (staging, analytics, production layers)
- BI Tools: Tableau, Power BI, Metabase
- dbt-like pipeline structuring
- Python (pandas, numpy), R, Excel automation
- Data QA and validation design
- Geospatial analysis: QGIS, ArcGIS
- Microsoft Azure, cloud-based data systems

#### Business & Communication:

- Metric design: SMART, AARRR, North Star KPIs
- Stakeholder requirement gathering
- Training, documentation, cross-team coordination
- M&E reporting frameworks

#### Analytical Skills:

- Data Modeling and Statistical Analysis
- Predictive Modeling for Agricultural, Climate and Environmental Data
- Scenario Analysis and Decision Support Systems

#### Soft Skills:

- Strategic Leadership and Stakeholder Engagement
  - Training and Capacity Building
  - Effective Communication and Team Collaboration
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### Professional Experience

#### Information Management Officer III

#### The International Centre of Insect Physiology & Ecology (icipe)

October 2022 – Present

- Established and maintained data models to facilitate business operations and strategic decision-making and improve data accessibility and accuracy.
- Produced and deployed dashboards and visualizations through Tableau, informing stakeholders of data trends and data measures.
- Conducted statistical assessments and discovered trends to better inform business strategies, resulting in 25% growth in key performance indicators.
- Interacted with cross-functional teams to learn about their professional data needs and deliver recommended solutions to improve data-informed practices.
- Reviewed business metrics and put forth recommendations to improve processes, achieving 20% growth in operational efficiencies.
- Produced and implemented a model to develop scalable Knowledge Management (KM) strategy, improved the ability of a greater than 116,465 youths and 11,924 enterprises to discover and use data, achieving 25% growth in engagement and program outcomes.
- Gathered with senior officials and donor representatives to harmonize KM strategies with national and organizational goals precisely for the 30% growth in program impact, coordination, and stakeholder collaboration.
- Directed the development of more than 50 knowledge products, including dashboards and reports that engaged stakeholders and enabled access to greater and more diverse data, achieving 20% growth to promote evidence-based decision-making.
- Managed the MOYESH program website, implementing modifications to increase active user engagement and facilitate communication, achieved a 35% increase in website traffic and 20% increase in user satisfaction.
- Implemented suggested modelling changes to enhance capacity and resources through participation in new workshops and evidence-based forums and directed all aspects of engagement and huddles and team lessons through the Community of Practice to fundamentally improve existing processes and procedures.

#### **Consultant**

##### **DAB Development Research and Training PLC**

*September 2024*

- Develop data visualization, collection and sharing dashboard (i.e. using Power BI, Excel or Microsoft forms) for all key outcomes of the PROSEAD program
- Test & validate the dashboard with DAB MEL team and share it with the partners
- Provide a provided half-day training on the application and use Power BI data analyst, visualization and related tools e.g. Survey solution, Kobo toolbox.
- Provide technical support/walk through/troubleshooting for the team

#### **Founder**

##### **Azmera Technologies**

*January 2022 – Present*

- Leading the creation of AI FARMS, an award-winning Agri-tech platform that enables stakeholders to use AI-enabled climate-smart farming.
- Developed solutions for market transparency, resource efficiency, and sustainable agriculture.

#### **Department Head**

##### **Entoto Polytechnic College**

*October 2020 – September 2022*

- Completed Ethiopia AI ecosystem study, including a 45-page report and actions recommended
- Completed market research reports, and pitch decks for AI ecosystem business growth.

- Synthesized insights from over 30 stakeholder interviews, allowing for alignment of strategic / recommendations and national priorities.

### **IT Support Specialist (Part-time)**

#### **App's mason IT Solutions**

*June 2016 - May 2019*

- Managed Network Installations for several clients and including Security systems installations and Admins.
- Provided technical support: Diagnosed and repaired hardware and software problems increasing user productivity and decreasing downtime by 20%.
- Created training materials: Improved unexpected troubleshooting conditions that clients encountered with the software and overall software use, decreased support requests by 25% and user self-sufficiency improved.
- Prepared system and patches: Improved system security and system performance increasing the overall performance and decreasing vulnerability by 15% and reducing the potential for disruption.
- Managed IT resources: Provided the best possible support process for IT resources, settling, maintaining, and/or resolving at least 80% of issues within 24 hours and improving overall IT Support efficiency.

### **Instructor**

#### **Entoto Polytechnic College**

*2012 – 2020*

- Developed and deployed ICT systems: Improved productivity and recognition in state competitions resulting in a 30% increase in student engagement and program branding usage.
- Conducted training sessions: Elevated ICT competency with staff and students resulting in an overall increase of 20% with regards to skills and educational outcomes overall.
- Led technology integration projects: Increased the efficiency of the curriculum and educational outcomes by 15% and promoted innovative teaching and learning experiences.
- Acted as advisers for students in innovative ICT projects: Secured top positions in national competitions, enhancing program branding by 25% and promoting student success.

### **Notable Projects**

- **MOYESH Program:** Developed a decision-support system managing data, leading to a 30% improvement in program outcomes.
- **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.

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### **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

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### **Certifications**

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

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## 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

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## Online portfolio



<https://github.com/LijKal-codes>



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



<https://www.linkedin.com/in/k-mulugeta>

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## References

Full Name	Position & Organization	Email Address	Phone Number
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