

# JOHNSON MUGARRA

Data Analyst | BI Development | Data Scientist

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## PROFESSIONAL SUMMARY

Results-driven Data Analyst with 6+ years of experience building scalable, self-service BI dashboards and data products across multi-country datasets. Proven track record designing end-to-end analytics workflows — from data modelling and ETL pipelines to stakeholder-facing dashboards trusted in production. Strong SQL skills complemented by Python and R expertise, with hands-on experience in Power BI, Tableau, and Looker Studio. Demonstrated ability to deeply understand business processes, embed logic in the data layer, and translate complex operational data into clear, usable insights for diverse audiences. Committed to building durable analytics tools that enable decision-makers at all levels to self-serve confidently.

## KEY ACHIEVEMENTS

- Built production-grade BI dashboards (Power BI, Tableau) enabling non-technical stakeholders to self-serve KPI tracking — adopted across multi-function teams
- Reduced forecast error by 18% (MAE) by engineering robust, automated analytics pipelines — directly improving data product reliability and trust
- Compressed analytics delivery cycles by 85% (6 weeks → <10 days) through end-to-end pipeline automation — enabling faster, more consistent reporting
- Achieved 95%+ data reliability in regulated environments through rigorous data governance, quality frameworks, and metric consistency standards
- Delivered data-driven recommendations to President-level stakeholders — demonstrating expert data storytelling for diverse, non-technical audiences

## CORE TECHNICAL COMPETENCIES

Languages & Tools:	SQL (advanced), Python, R; pandas, numpy, scikit-learn
BI & Dashboarding:	Power BI (Microsoft Certified), Tableau (Specialist), Looker Studio, Superset
Data Modelling:	Semantic layers, ETL pipelines, data warehouse design, metric consistency
Workflow Automation:	Airflow, Apache Spark, PostgreSQL, Docker, Git, automated retraining
Analytics Skills:	Self-service BI design, data storytelling, stakeholder empathy, governance
Languages:	English (fluent), working knowledge of Swahili

## PROFESSIONAL EXPERIENCE

**Research & MEAL Specialist (Analytics Lead)** | *Center for Research & Communication (CRC)*  
Jan 2025 – Present

- Champion self-service analytics adoption across multi-function teams — delivering training on Python, SQL, and data modelling best practices to build sustained analytical capability
- Design and own end-to-end analytical workflows for cross-country programme data, improving evidence-based decision-making outcomes by 20–30%
- Establish data governance, quality assurance, and documentation standards ensuring consistent, trusted metrics across all data products
- Translate complex analytical outputs into strategic recommendations for diverse stakeholders — practising rigorous data storytelling for non-technical audiences
- Build and maintain automated reporting pipelines, reducing manual effort and improving data product sustainability

**Data Analyst / Data Scientist** | *MAAIF, VANEX, Makerere University & CRS* Jan 2024 – May 2025

- Designed and deployed a full-stack data analytics system integrating multi-source datasets (APIs, satellite imagery, ground truth) — achieving 18% reduction in forecast error and >80% classification accuracy across geographic cohorts
- Owned complete analytics lifecycle: data collection, feature engineering, model development, dashboard design, user testing, and iterative improvement
- Built scalable ETL pipelines using Python and Airflow with daily API synchronisation and centralised data warehouse consolidation — production-grade infrastructure supporting reliable, always-on reporting
- Developed Power BI and Tableau dashboards for real-time KPI monitoring, enabling non-technical stakeholders to track and act on insights independently
- Partnered with technical and non-technical teams to ensure business logic was embedded at the data model layer — not duplicated across dashboards

**Research Associate — Analytics & BI** | *USAID-SITES, SSS Inc. & DLH Corporation* Jun 2023 – May 2025

- Performed rigorous SQL/Python data quality audits achieving 95%+ data reliability — establishing trusted, audit-ready data products for high-stakes programme reporting
- Built automated ETL pipelines integrating SurveyCTO, Power BI, and PostgreSQL — operationalising data infrastructure for consistent cross-country reporting
- Developed stakeholder-focused dashboards and automated reports enabling 15% operational efficiency gains — reducing dependence on manual, ad-hoc analysis
- Documented data products, metric definitions, and dashboard design standards — contributing to organisational best practices in BI governance

**Data Analyst / Research Associate** | *Bronkar (U) Limited* Jul 2021 – Jun 2023

- Conducted advanced statistical analysis and delivered evidence-based recommendations improving operational outcomes for stakeholders across multiple East African markets
- Designed and implemented data collection and reporting frameworks, reducing field operations time by 25% through systematic process optimisation
- Led technical capacity-building workshops on analytics tools, building sustained data literacy within cross-functional teams

## SELECTED BI & ANALYTICS PROJECTS

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**Automated Analytics Pipeline for Cross-Country Impact Evaluation (2023–2025)**

- Built Python + Airflow pipeline with automated data ingestion, quality checks, and auto-generated reports — reducing reporting cycle time by 85% (6 weeks → <10 days)
- Embedded business rules and metric definitions in the data warehouse layer, ensuring single source of truth across all downstream dashboards and reports

## EDUCATION

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**MSc Data Science** — Manipal Academy of Higher Education (MAHE), India Sep 2022 – Oct 2024

Machine Learning, Predictive Analytics, Time-Series Forecasting, NLP, Big Data Analytics, Advanced Statistics

**BSc Agricultural Science** — Makerere University, Uganda Sep 2016 – May 2021

Biometrics & Statistics, Research Methods, Mathematics

## PROFESSIONAL CERTIFICATIONS

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- Microsoft Certified: Power BI Data Analyst Associate
- Tableau Desktop Specialist
- SAS Certified Statistical Business Analyst
- Google Certified: Project Management Professional (PMP)