

Nsia Suuma

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Data Analyst with 5+ years of experience transforming raw data into actionable insights for business growth and policy impact. Skilled in SQL, data visualization (PowerBI, Superset, Tableau), and modern data warehousing (PostgreSQL, ClickHouse, Redshift). I have a track record in designing, implementing and maintaining ETL pipelines and real-time dashboards, and enabling data-driven decision-making across finance, education, and technology sectors. Experienced in building analytics pipelines with tools such as Kafka, FlinkSQL, and NiFi, bridging the gap between technical data systems and business intelligence. Passionate about using data storytelling to improve efficiency, enhance customer experiences, and support organizational success.

CORE COMPETENCES

- Advanced SQL & Data Warehousing (ClickHouse, PostgreSQL, Redshift)
- Data Visualization & Reporting (PowerBI, Apache Superset, Tableau)
- Business Intelligence & KPI Frameworks
- ETL / Data Pipeline Development (Kafka, FlinkSQL, NiFi, Meltano)
- Statistical Analysis & Data Cleaning
- Stakeholder Communication & Business Alignment

PROFESSIONAL EXPERIENCE

Data Analyst & Operations Engineer | Oltranz Ltd | Jul 2021 – Oct 2025

- Designed and delivered real-time dashboards and BI reports in PowerBI and Superset, enabling faster decision-making.
- Conducted data curation, cleaning, and integration across multiple sources for analytics and reporting.
- Partnered with stakeholders to translate business requirements into data-driven insights.
- Led redesign of a legacy payments platform, streamlining reporting and reconciliation processes.
- Built fault-tolerant data pipelines with retries and checkpointing to maintain data integrity.
- Implemented monitoring and alerting systems to guarantee data integrity and pipeline reliability.
- Optimized and tuned ETL workloads through profiling, parallelization, and resource tuning to increase throughput and reliably handle higher traffic.

Data Analyst & Researcher, EMIS Project Phase 1 & 2 | UNICEF, Rwanda | May 2019 – Nov 2020

- Acted as liaison between business and IT teams, ensuring data-driven decision-making in product innovation.
- Conducted analysis and visualization of education datasets using PowerBI, driving improvements in the School Data Management System.
- Developed a best practices report across 50+ countries to guide Rwanda's national education data strategy.
- Prototyped dashboard mockups and documented a roadmap for advanced analytics within EMIS.
- Presented findings and insights to policymakers and technical teams, influencing adoption of secure and relevant data systems.

Specialist, Innovation Lab | NMB Bank Plc. | March 2024 – April 2025

- Acted as liaison between business and IT teams, ensuring data-driven decision-making in product innovation.
- Conducted market research and feasibility studies, analyzing customer and market data to identify new opportunities.
- Designed process flows, dashboards, and KPIs to support 10+ product lifecycles across internal and customer-facing systems.
- Supported data-driven enhancements to the bank's onboarding and remediation platforms, directly impacting millions of customers.
- Contributed to the enhancement of the NMB Kikundi platform, enabling financial access for 1M+ unbanked Tanzanians.

EDUCATION

Carnegie Mellon University | MSc. Science in Information Technology | 2018 – 2020

Relevant Coursework: Data Analytics and Applications, Software development, IT Entrepreneurship and Leadership, Machine Learning and Database Management.

University of Dar es Salaam | BSc. Computer Engineering and Information Technology | 2013-2017

Relevant Coursework: Object Oriented Analysis & Design, Databases, C and Java Programming Languages, Algebra & Matrices, Calculus, System Programming, Operating Systems.

AWARDS AND CERTIFICATIONS

- Machine Learning Course | Coursera | June 2021 - [Verify Certificate](#)
- Recipient of Mastercard Foundation Graduate Scholarship at Carnegie Mellon University Africa | July 2018 – May 2020
- Won First Place as a Technical Exhibitor in the Tanzania Women Engineers Convention Exhibition(TAWECE), 2017.

LEADERSHIP

- Communication and Public Relations Officer |Women in Tech Club, CMU Africa | 2019-2020)
- Secretary: Techy Talkers Toastmasters Club, CMU Africa 2019-2020

REFERENCES

Available upon request.