TIMOTHY MANDINGWA

404-493-0477 • timothy.mandingwa@emory.edu • LinkedIn • Github • Website

EDUCATION

EMORY UNIVERSITY, GOIZUETA BUSINESS SCHOOL Atlanta, GA
Master of Science in Business Analytics (MSBA), STEM credentialed program *May 2026*

CHINHOYI UNIVERSITY OF TECHNOLOGY Harare, Zimbabwe
Master of Science in Big Data Analytics *May 2023*

UNIVERSITY OF ZIMBABWE Harare, Zimbabwe
Bachelor of Business Studies and Computing Science, Honors *June 2019*

TECHNICAL CAPABILITIES

- Tools: AWS, Azure, GCP, Hadoop, Spark, Databricks, Kafka, Snowflake, PostgreSQL, NoSQL, Tableau, Power BI.
- Languages: Python (Pandas, Numpy, Seaborn, Scikit-learn, Tensorflow, Skforecast), R, SQL, IDEA, ACL

EXPERIENCE

EQUIFAX Atlanta, Georgia
Data Scientist Consultant *2025 to Present*
- Led a cross-functional team to implement automated data quality validation frameworks, improving model governance, enhancing data accuracy, reducing manual effort by 60%, and strengthening Model Risk Management compliance.
- Built GenAI-integrated OOT validation pipelines identifying 95%+ of instability issues pre-deployment, automating reporting and enhancing model stability monitoring.
- Applied advanced statistical modeling and hypothesis testing to evaluate feature stability and sampling bias across 100% of model inputs, improving drift detection coverage and regulatory transparency.

ECONET WIRELESS ZIMBABWE Harare, Zimbabwe
Fraud Data Analyst – Risk Management *2021 to 2025*
- Integrated Agentic AI and Generative AI in fraud analytics and forensics to enhance investigation workflows, reducing manual reviews by 80% and lowering fraud leakages to under 0.50%.
- Designed and deployed hybrid rule-based and machine learning fraud detection models analyzing 20M+ daily transactions, reducing false positives by 35% at constant recall, improving detection accuracy to 95%.
- Built and automated SQL-driven data pipelines for alerts, compliance audits, and anomaly detection, ensuring real-time monitoring and maintaining a fraud leakage KPI below 0.50%.
- Created Business Intelligence dashboards (Power BI, Tableau) to monitor fraud KPIs, leakage trends, and model performance, digitizing 90% of internal controls and significantly streamlining compliance and executive reporting.
- Designed and operationalized cloud-based data assurance frameworks (Microsoft Azure & AWS) for system migrations and disaster recovery, achieving 100% data quality and regulatory compliance across business-critical datasets.
- Engineered cloud-based, Kafka-integrated SQL and Python data pipelines to process 20M+ daily transactions in real time, supporting anomaly detection models and maintaining fraud leakage below 0.50% with improved alert efficiency.

ECONET WIRELESS ZIMBABWE Harare, Zimbabwe
IT Risk Analyst *2019 to 2021*
- Developed predictive analytics and anomaly detection models to proactively identify revenue leakage and fraud risks, maintaining losses below 0.50% of total revenue through data-driven risk controls.
- Implemented executive-level BI dashboards in Power BI and Qlik to monitor operational KPIs, compliance scoring, and risk indicators, improving compliance accuracy to 99% while reducing manual review effort by 80%.
- Collaborated with finance, operations, and IT teams to mitigate system and operational risks, increasing process assurance and risk visibility across business-critical systems.
- Strengthened IT risk management, achieving 99.9% data accuracy and 100% compliance through governance frameworks.

ADDITIONAL INFORMATION

- Certifications: ISO 27001 ISMS Development and Implementation, Executive Certificate in Program and Project Monitoring and Evaluation, CARA Certified Apprentice Fraud and Revenue Assurance