

NICOLETTE MTISI

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EDUCATION

Yeshiva University, Katz School of Science and Health

Master of Science in Data Analytics and Visualization

New York, NY

Expected Dec 2026

University of Zimbabwe

B.Sc. (Hons) in Data Science & Informatics

Harare, Zimbabwe

Sep 2024

PROFESSIONAL EXPERIENCE

Data Science Intern

Aug 2022 – Aug 2023

Zimbabwe Power Company (ZPC), Hwange, Zimbabwe

- Cleaned and structured datasets, boosting reporting accuracy by 25% across 10,000+ records.
- Developed dashboards in Excel and Tableau, visualizing fuel usage and KPIs for 5 operational units.
- Delivered insights that reduced fuel waste by 10%, saving \$70,000 annually.

Data Analyst & Sales Assistant

Jan 2024 – Dec 2024

VEETNIC Enterprises, Hwange, Zimbabwe

- Conducted market basket analysis, identifying product combinations for 30,000+ monthly transactions, increasing sales by 8%.
- Maintained sales databases, streamlining data entry for 30,000 monthly transactions, reducing errors by 15%.
- Created sales and inventory reports using Power BI and Excel, improving decision-making speed by 20%.

Founder & Owner

Aug 2021 - Dec 2024

Nicole's Treats, Harare, Zimbabwe

- Analyzed sales and customer data using Python and Excel, optimizing pricing strategies for 50+ products, increasing revenue by 12%.
- Designed Tableau visualizations for sales and customer preferences, analyzing 500+ monthly transactions, boosting product development efficiency by 25%.
- Leveraged data insights for marketing campaigns, increasing customer engagement by 20% and acquiring 300 new customers.

PROJECTS

- **USA Flight Delay Analysis:** Analyzed airline data with Python and SQL to identify delay trends.
- **Twitter Sentiment Analysis (DistilBERT):** Built an NLP model using DistilBERT for airline tweet sentiment classification.
- **Predictive Maintenance:** Built a Python-based machine learning model to predict machinery failures.
- **Power BI Sales Dashboard:** Designed a Power BI dashboard for Adventure Works sales metrics.
- **Chronic Disease Analytics:** Built a PostgreSQL system with ETL pipelines for health data insights.

SKILLS AND CERTIFICATIONS

Programming Languages: Python, R, SQL

BI: Tableau, Power BI

Machine Learning & AI: Machine Learning, Predictive Modeling, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG)

Data Engineering: Data Wrangling, ETL, PostgreSQL, Data Modeling

Analysis: Statistical Analysis, Customer Insights, Time Series Analysis

Libraries & Frameworks: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Gradio, Hugging Face, Open AI

VOLUNTEER EXPERIENCE

Insuretech Insights Conference

Jun 2025

Triangle Park Community Center

Apr 2025 - Jul 2025

Katz School of Science and Health Orientation

Aug 2025