SIKHUMBUZO MDAKANE

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OBJECTIVE

Analyst enthusiast with a strong academic background in Mathematics, Corporate Finance, and Investments, supported by Postgraduate Diplomas in both Data Science and Finance. Proficient in analytical and data tools including Python, Excel, Power BI, and machine learning frameworks, with a proven ability to extract and communicate actionable financial insights. Passionate about leveraging data-driven methodologies to enhance financial modeling, risk analysis, MA evaluation, and capital markets strategy. Eager to contribute to automation initiatives, digital transformation, and high-impact investment decisions within fast-paced, innovation-led financial environments. Dedicated to supporting research and governance initiatives that drive social and economic development through evidence-based decision-making.

EDUCATION

Postgraduate Diploma in Data Sciences (Passed with Distinction)

Wits University   **2024-2024**

Core Modules:

- Applied Machine Learning
- Data Science in Practice - Deployment and Ethics (COMS5020A)
- Mathematical and Statistical Foundations of Data Science (COMS5021A)
- Programming for Data Scientists (COMS5022A)

Elective Modules:

- Data Science in Education (COMS5023A)
- Applications of Machine Learning in Chemistry (COMS5024A)
- Social Media Analysis in and for the Global South (SLLS5027A)
- Health Analytics for Data Science (COMS5027A)
- Spatio-temporal Data Analytics (GEOL5013A)

Bachelor of Sciences

Wits University   **2019-2023**

Modules Passed:

- Mathematics III
- Corporate Finance III
- Investments III
- Actuarial Sciences I
- Mathematical Statistics I
- Economics II

Postgraduate Diploma in Finance

Wits University   **2025-Present**

Achievements:

- Distinctions: Calculus I, Multivariable Calculus II, Basic Analysis II, Differential Equations II.

EXPERIENCE

Quantitative Risk Analyst

eGroupX   **2024-Present**

Responsibilities:

- Created a Standard Operating Manual (SOP) for the Risk Division.
- Developed an exchange rate model to predict USD/ZAR for the Remittance Division.
- Presented the exchange rate model to 42 Markets.
- Trained under the mentorship of an ex-SARB official, Mr. Collet Ndlovu.
- Assisted in creating the Interest Rate Model.
- Gained a deep understanding of the NCX index under the mentorship of a former SARB official.
- Designed and implemented Credit, Market, Interest Rate, Operational, Liquidity, Solvency, and Investment Risk policies.
- Conducted Due Diligence for individuals and companies.
- Computed gains and losses from remittance transactions using excel.
- Created DashBoards using Excel for EXCO Meetings
- Financial Modelling with Python and Excel
- Performed stress tests to assess financial resilience.
- Wrote and presented comprehensive risk reports.
- Compiled bank application pack and asset management application pack.

Mathematics Tutor (Algebra and Calculus)

Wits University **2024**

- Tutored first-year students in Algebra and Calculus, fostering strong foundational understanding.

First-Year Mentor

Wits University **2022**

- Guided first-year students, providing academic and social support during their transition.

SKILLS

- **Programming Languages:** Python (Good), SQL (Basic).
- **Data Visualization Tools:** PowerBI (Basic).
- **Spreadsheet Proficiency:** MS Excel (Intermediate).
- **Data Science Expertise:** Machine Learning (Basic).
- **Risk Management:** Enterprise-wide Risk Management.
- **Problem Solver:** Mathematics logic, Investment Background.
- **Desire to learn:** Curiousity.

ADDITIONAL INFORMATION

Involvements:

- Mathematics Tutor (2024).
- First-Year Mentor (2022).