Mahlatse Masemola
DATA SCIENTIST

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PROFILE

A passionate data enthusiast with a strong foundation in data analysis, programming, machine learning, and data visualization. I am dedicated to uncovering insights and solving complex problems. My curiosity drives me to learn quickly, adapt to new challenges, and continuously expand my skills. I am eager to contribute my expertise in a collaborative environment and work on impactful projects that drive innovation.

WORK EXPERIENCE

Explore AI Academy   **Jan 2024 - Dec 2024**
Data Science Intern

- Performed exploratory data analysis, data cleaning, and data manipulation on customer data to identify key patterns, handle missing values, and address inconsistencies for improved data quality.
- Implemented an XGBoost model to predict loan defaults and performed feature selection to optimize model performance.
- Performed batch processing to import large datasets into MySQL, followed by data manipulation using SQL commands to merge and refine the dataset for optimal use.
- Worked collaboratively to design and embed a Power BI dashboard into a secure website, providing real-time insights on claim statuses and SLA tracking.
- Built a web scraper using Python, BeautifulSoup, Requests, and Selenium to efficiently collect image data, which was intended for future analysis and processing using machine learning techniques.

EDUCATION

University of Johannesburg   **Jan 2025 - Nov 2026**
Master of Applied Data Science

- <u>Core Modules</u>: Data Exploration | Predictive Analytics | Marketing Analytics | Marketing decision making models | Competitive Intelligence

Stellenbosch University   **Jan 2023 - Nov 2023**
Postgraduate Diploma in Industrial Engineering (Focus: Data Science)

- <u>Core Modules</u>: Data Science | R Programming | Big Data Technologies | Applied Machine Learning | Data Analytics

University of Johannesburg   **Feb 2019 - Nov 2022**
BSc in Life and Environmental Science (Majors: Biochemistry and Physiology)

- <u>Core Modules</u>: Mathematics | Chemistry | Physics | Biochemistry | Physiology | Microbiology

TECHNICAL SKILLS

Technical Skills: Python | R | Power BI | Microsoft Excel | MySQL | Git and GitHub | Machine Learning | Data Preparation | Data Cleaning | Data Visualization | Data Manipulation
Soft Skills: Adaptability | Optimism | Results-Driven | Analytical Thinking | Effective Written and Verbal Communication | Quick Learning | Time Management | Team Collaboration | Meticulous