

SICELWESIHLE MYEZA

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📍 **Location:** Johannesburg, Gauteng, South Africa (Open to Relocation)

Professional Summary

Computer Science graduate (Wits, 2024) with first-class marks in mathematics, working as a Data Analyst at iqbusiness. Strong in Python, SQL and Business Intelligence tools (Power BI, Tableau, Excel), with hands-on experience cleaning, transforming and analysing large datasets, designing interactive dashboards, and communicating findings to both technical and non-technical stakeholders. Beyond analytics, I build probabilistic and risk-modelling projects; a Dixon-Coles football-forecasting engine and a bank-style credit-default scorecard; developing the calibration, validation and position-sizing skills that quantitative and credit-risk roles demand. Certified in IBM Data Science & Analytics.

Core Competencies

- **Programming & Data Management:** Python (Pandas, NumPy, scikit-learn, statsmodels, Matplotlib, Seaborn), SQL (PostgreSQL, MySQL, Oracle, SQL Server; joins, CTEs, window functions), C++, Java, Query Optimization & Stored Procedures.
- **Business Intelligence & Visualization:** Power BI, Tableau, Microsoft Excel.
- **Data Analysis & Workflow Optimization:** ETL, Data Wrangling, Exploratory Data Analysis (EDA), Dashboard Design & Reporting Automation, Data Quality Assurance.
- **Quantitative & Statistical Methods:** Probability & Statistics, Probability Calibration, Logistic Regression & Scorecards (WOE/IV), Backtesting; Time Series & Financial Mathematics (developing).
- **Tools & Platforms:** Git/GitHub, Jupyter Notebooks, Web Scraping (BeautifulSoup, Requests, APIs), Agile/Scrum, Data Storytelling.

Experience

Junior Data Analyst

iqbusiness

Johannesburg, Gauteng

2026 – Present

- Build and maintain ETL workflows in Python and SQL that clean and transform large datasets into analysis-ready form.
- Run exploratory data analysis and maintain data-quality checks to keep reporting accurate and reproducible.
- Develop interactive Power BI dashboards and present findings to non-technical stakeholders.
- Collaborate within an Agile/Scrum delivery team.

Junior Data Analyst

University of the Witwatersrand

Braamfontein, Gauteng

Jan 2025 – Nov 2025

- Collected, cleaned and transformed large research and operational datasets using Python (Pandas, NumPy) and SQL, improving dataset accuracy by 15%+ and reducing preparation time for analysis.
- Designed and deployed interactive Power BI dashboards enabling stakeholders to track 10+ key performance indicators (KPIs), improving visibility of research progress and decision-making efficiency.
- Automated ETL workflows, reducing manual preparation and increasing reproducibility.
- Conducted EDA to identify trends and anomalies, improving analytics reliability.
- Collaborated on an Agile/Scrum team, presenting insights during Sprint Reviews.

- Delivered end-to-end technical support for academic staff, resolving issues across 200+ lab computers and ensuring 98% system uptime during peak academic periods.
- Coordinated remote software installations for a fleet of 200+ computers, reducing setup time by 30% and minimizing academic disruption.
- Implemented ticket-tracking improvements, optimizing technical workflows and resolution times.

Projects

V8; Quantitative Football Model

- Modelled match outcomes with Dixon-Coles (bivariate Poisson) using Bayesian shrinkage and time decay.
- Calibrated predicted probabilities (isotonic/Platt; reliability diagrams, Brier / log-loss) and sized positions with fractional Kelly.
- Measured edge honestly through walk-forward backtesting and closing-line value, guarding against lookahead bias. (*Python*)

Credit Default Scorecard

- Built an interpretable probability-of-default scorecard: WOE/IV feature engineering, logistic PD model, and PDO score scaling with reason codes.
- Validated with KS, Gini/AUC and PSI stability, benchmarked against a gradient-boosted model to quantify the interpretability trade-off. (*Python*)

Survey Data Tooling

- Python utilities for survey-data quality control ([survey-overlap-qc](#)) and for reshaping compact, multi-select responses into analysis-ready binary matrices ([survey-compact-to-binary](#)).

Education

University of the Witwatersrand
Bachelor of Science in Computer Science

Johannesburg, Gauteng
Jan 2020 – Dec 2024

- Majors: Computer Science and Computer Applications. First-class marks in mathematics (probability, statistics, linear algebra).
- Relevant Coursework: Database Fundamentals; Machine Learning; Software Design; Operating Systems & Systems Programming; Advanced Analysis of Algorithms; Computer Graphics & Visualization; Parallel Computing & Computer Networks.

Certifications

- IBM Data Science Professional Certificate
- IBM Data Analytics Professional Certificate