

PHELETSO MARUMOLOE

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Professional Summary

Results-driven, Analytical Chemistry Honours and Data Science graduate from the University of the Witwatersrand. Adept at leveraging strong problem-solving and data analysis skills to drive innovation in technical environments. Experienced in laboratory safety, quality assurance, and academic support. Passionate about integrating chemistry and data science knowledge to solve complex problems and improve operational efficiency.

Key Competencies

- **Technical Skills:** Laboratory techniques, Quality assurance, Data analysis, Machine learning
 - **Programming & Data Tools:** Python, R, SQL, Excel, Microsoft PowerBI
 - **Soft Skills:** Critical thinking, problem-solving, exceptional communication, teamwork, and report writing.
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Education

Postgraduate Diploma in Data Science – University of the Witwatersrand

Feb 2024 - Dec 2024

- Studied the mathematical and statistical foundations of data science
- Applied machine learning techniques to solve problems in various sectors, such as finance and healthcare

BSc Honours in Chemistry – University of the Witwatersrand

Feb 2023 – Nov 2023

- Conducted in-depth research and analysis in various areas of chemistry
- Developed strong data handling and experimental design skills

BSc in Chemistry and Applied Chemistry – University of the Witwatersrand

Feb 2019 – Nov 2022

Professional Experience

Junior Quality Assurance & Safety Officer

Feb 2023 – Nov 2023

- Conducted regular inspections to ensure compliance with fire, hazard, and safety regulations
- Identified and resolved safety issues efficiently, reducing risk in laboratory operations
- Ensured quality assurance standards for laboratory activities were met

First-Year Chemistry Lab Demonstrator

Feb 2023 – Nov 2023

- Provided hands-on demonstrations of lab equipment to first-year students
- Supported students in understanding experimental procedures and ensuring lab safety
- Collaborated with faculty to improve laboratory instruction delivery

Key Projects and Achievements

- **Data Science Capstone Project:** Developed a machine learning algorithm that places trades independently, without any human intervention through API technology that contributes to the intelligence of the algorithm
- **Research in Chemistry:** Investigated the effects of enhancing an electrocatalyst through a process called intercalation to improve the performance of the catalyst, the application was to improve the overall performance of batteries and Supercapacitors

Technical Skills

- **Programming:** Python (Pandas, NumPy, Scikit-learn), R, SQL
- **Data Visualization:** Matplotlib, Seaborn, PowerBI
- **Quality Assurance:** Lab safety protocols, regulatory compliance

Additional Information

- **Languages:** English, Tswana, Zulu, Xhosa

References

Dr. Siziwe Gqoba

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Prof. Kenneth Ozoemena

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