

Sivuyiso Mvani



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Personal Statement

BSc in Applied Statistics graduate with a strong foundation in statistical theory, data analysis, and programming. Proficient in Python, R, and various data visualization tools, with hands-on experience in conducting data-driven projects. Eager to join a dynamic team where I can continue to develop and grow my analytical skills set and contribute to impactful projects. I am a team player, and I am passionate about making a positive impact.

Education

Bachelor of Science (BSc.) in Applied Statistics - University of Cape Town

February 2020 – Mar 2025 (Expected Graduation)

- Relevant coursework: Multivariate Data Analysis, Statistical Inference & Modelling, Statistical Theory, Data Analysis & Study Design, Research Data Analysis in Organizational Psychology, Operations Research

National Senior Certificate (NSC) - Oaklands High School

January 2015 – December 2019

- Achieved Top achiever with average of 80% and including distinctions in Mathematics, Physics, and Life Science

Work Experience

Residence Librarian - Leo Marquard Hall, University of Cape Town

March – October 2022

- Collaboratively worked with team of librarians to ensure successful operation of the library, monitoring and managing the usage of the residence library equipment, on daily basis, to cater to the needs of the student populous of over 200 students

Skills

- **Programming:** Proficient in Python and R programming, with extensive experience, through coursework and independent projects, in Python's data analysis libraries, such as NumPy, Pandas, and matplotlib and performing statistical modelling and data visualization in both languages.
- **Data Analysis:** Proficient in the data analytics workflow, and am proficient in Regression analysis, multivariate data analysis, and hypothesis testing, and statistical modelling.
- **Machine Learning:** Able to implement supervised and unsupervised learning algorithms in Python and R.
- **Computer Skills:** Experience in using the Microsoft Office Suite. Familiar with Jupiter Notebooks, RStudio, Github and Latex.
- **Problem Solving & Analytical Thinking:** Analytical thinking and step-wise approach to solving complex problems, developed through advanced coursework studies such as Advanced Calculus, Computational & Mathematical Modelling and Physics.

- **Teamwork:** Demonstrated ability to work collaboratively in academic projects and professional settings, such as library operations and group research projects and presentations.

Projects

- ❖ **Regression Density of pollinating fynbos birds**
 - As part of the Study Design & Data Analysis (STA2007F) course, I participated in a group project where we analysed a dataset to predict the density of pollinating Fynbos birds in the Western Cape. Using R, we built and evaluated various statistical models to determine the best model.
 - My role included writing the R code for model development, as well as composing the theoretical background and conclusions in the final statistical report. Our team collaboration resulted in an excellent mark of 76% for this project.
- ❖ **Determining the Age Wishing Well Star Cluster (NGC 3532) and its Distance Relative to Earth**
 - As part of the Astronomical Techniques course (AST2002H) I worked in team to gather astronomical data on the Wishing Well Star Cluster (NGC 3532) using the UCT Tony Ferral Teaching Telescope, with the aim of estimating the cluster's age and distance from Earth.
 - Independently conducted data analysis which involved performing data manipulation, preprocessing, and visualization using Python libraries, including Pandas, NumPy, and Matplotlib, in Jupyter Notebooks to derive insights from the collected data. Furthermore, authored a detailed scientific report presenting the results and findings, earning an 80% grade for the project.

Certifications

- [Learning SQL Programming \(Issued November 2024\) – Linked Learning](#)
- [SQL Essential Training \(Issued November 2024\) – LinkedIn Learning](#)
- [Excel Essential Training \(Issued March 2024\) – LinkedIn Learning](#)
- [Power BI: Dashboards for Beginners \(Issued Nov 2024\) – LinkedIn Learning](#)
- Applied Data Science – World Quant University

References

Available upon Request