

DAVID BARE

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PROFESSIONAL SUMMARY

Meticulous **Data Scientist** with over two years of experience in **data analytics**, **statistical modeling**, and **business intelligence**. Specializes in **transforming complex datasets** into **actionable insights** using tools like **SQL**, **Python**, **R**, and **visualization** platforms such as **Power BI** and **Tableau**. Proficient in **building and maintaining efficient data pipelines**, **designing predictive models**, and **automating processes** to **optimizing decision-making**. Skilled at creating **data-driven strategies** that enhance **business performance**, with experience in **developing scalable BI solutions** and presenting **insights** to stakeholders. Currently pursuing a **Master's in Business Analytics**, with a strong focus on **data integration**, **machine learning**, and **process automation**.

EDUCATION

MOORE SCHOOL OF BUSINESS, University of South Carolina
Master of Science in Business Analytics (MSBA). GPA 4.0/ 4.0

Columbia, SC USA
August 2024 – May 2025

UNIVERSITY OF ZIMBABWE
Bachelor of Science in Actuarial Science, GPA 3.7/ 4.0

Harare, Zimbabwe
August 2018 – August 2022

Actuarial Science Club Member, Class Representative, Vice Chancellor Scholarship. Society of Actuaries Student Member.

WORK EXPERIENCE

DARLA MOORE BUSINESS SCHOOL

Columbia, SC USA
August 2024-Present

Data Lab Assistant

Selected to a team to assist students in **data analytics** and **statistical** methods projects for a business school of 6000 students.

- Conduct data-intensive projects using **R**, **SQL**, and **Power BI** to **analyze** and **visualize** large-scale business data.
- Provide comprehensive support for statistics courses, ensuring high data integrity and accuracy.
- Contribute to the Data Lab's mission of fostering data ability and **transforming data** into **actionable insights**.
- Collaborate with faculty and students to develop **educational materials** focused on **data analysis** and **machine learning concepts**, increasing student engagement by **30%** through interactive learning sessions.

PETALM AFRICA PVT LTD

Harare, Zimbabwe
June 2022- August 2024

Data Analyst

- Developed **and maintained** efficient and scalable **ETL processes** using **SQL** and **Python**, improving **data retrieval speeds by 30%**, which enhanced the business intelligence reporting systems.
- Analyzed **and modeled** large-scale datasets to extract actionable insights using **statistical techniques** and **visualization tools**, contributing to strategic decisions that **increased sales by 25%** over two quarters.
- Built **predictive models** using Python and R to forecast financial performance, achieving a **forecast accuracy of 95%**, which informed management's data-driven decision-making processes.
- Created **interactive dashboards** and comprehensive reports to **visualize market trends**, leading to a **15% reduction in operational costs** and ensuring timely data access for stakeholders.
- Collaborated with cross-functional teams to troubleshoot and **optimize data models and workflows**, resulting in streamlined reporting and more reliable data-driven insights.

FIDELITY LIFE ASSURANCE

Harare, Zimbabwe
June 2020 – December 2021

Actuarial and Data Science Intern

- Conducted **in-depth data analysis** on insurance portfolios using **SQL** and **R**, identifying key mortality trends that enabled the **optimization of product offerings**, leading to a **10% increase in policyholder retention**.
- Developed **valuation models** for life and health reinsurance portfolios, applying **regression analysis** and other **statistical methods** to improve risk assessments and **reduce loss ratios by 12%**.
- Built **data models** to support underwriting and risk management, **automating** data-driven reporting processes, and enhancing the company's risk assessment framework.
- Prepared **detailed reports** and data-driven recommendations for leadership, utilizing **visualization tools** like **Tableau** to effectively communicate complex findings and **improve strategic risk management by 20%**.
- Worked **collaboratively** with the actuarial and business analytics teams to **automate manual data entry** and reporting processes, leading to a more efficient workflow and **improved data accuracy**.

Technical Skills

Programming (Python, R, SQL): Proficient in **Python** and **R** for **data manipulation**, **statistical analysis** and **SQL** for querying **large databases**.

Data Wrangling and Cleaning: Experienced in **cleaning** and preparing raw data using tools like **Python** (Pandas) and **R** (dplyr).

Statistical Analysis and Mathematics: Proficient in **hypothesis testing**, Time Series Analysis, predictive Modeling, Deep Learning and regression.

Machine Learning and Model Building: Advanced knowledge of **machine learning** libraries such as **Scikit-Learn**, **TensorFlow**, **StatsModel**, **ILSP**.

Data Visualization: Advanced knowledge of visualization tools like **Matplotlib**, **Seaborn**, **Plotly**, **Tableau**, and **Power BI**.

Big Data Tools and Cloud Platforms: Proficiency with **big data** tools (**Hadoop**, **Spark**) and cloud platforms (**AWS**, **Google Cloud** and **Azure**).

Financial Modeling and Forecasting: Expert in building financial models to predict revenue, expenses, and cash flow for **scenario analysis**.

LANGUAGES: English: Native or Fluent

US WORK AUTHORIZATION: 3 years post-graduation on **F1** student visa with 2-year **STEM OPT**. **Citizen of Zimbabwe**.