

Farisayi Dakwa

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Highly motivated data scientist with over 6 years of experience in data analysis, machine learning, and statistical modeling. Proficient in Python, R, and SQL. Passionate about turning large datasets into actionable insights. Skilled in creating visual project analyses both independently and as part of a team.

Certificates

- IBM Certified professional Data Scientist (APIs, SQL, Python, ML)
- Data Visualisation with Python certification
- Databases and SQL for Data Science with Python certification
- Machine Learning with Python

Education

University of Cape Town

2019 -2021

Quantitative Masters by research

- Two year research project, long-term data analysis (50 years) on two endangered species to determine the effect of climate change and environmental variables on their population trends and behavior using robust Bayesian models in R.

Data Analysis Experience

Data Analyst

2023- 2024

Imvelo Blue Environmental Consultancy

- Prepared detailed reports and scientific data presentations.
- Used geospatial tools to determine fishing activity and productivity by creating maps that track the movement of fishing vessels using coordinate data.
- Created visualisations to summarise fisheries catch data (length, weight, diversity) to improve knowledge on fishing population distribution and productivity.

Database manager

2022 - 2023

Postdoc Honeyguide research project

- Designed data entry templates using Excel to improve data collection processes.
- Created interactive dashboards in R shiny to help students summarise and plot their questionnaire data.
- Designed and implemented data pipelines to combine and integrate questionnaire data.

Quantitative Scientist

2022 - 2023

Bayworld Center for Research and Education

- Collaborated with cross-functional teams to prepare a multinational biodiversity assessment report and publish papers.
- Designed and trained machine learning models (using R packages like Caret and randomForest) to predict seabird species distribution maps using spatial data and multidimensional environmental satellite data.
- Developed custom scripts for data preprocessing, transformation, and feature engineering to investigate the impact of climate change on species distribution using satellite environmental data.

Technical Skills

- **Programming Languages:** R, Python, SQL
- **Machine Learning:** Regression, Classification, Clustering, Neural Networks
- **Data Visualization:** ggplot2, Matplotlib, Seaborn, Plotly
- **Geospatial Analysis:** Spatial data processing, GIS tools
- **Database Management:** SQL Server, MySQL
- **Tools and Libraries:** VS code, Jupyter Notebook, Pandas, NumPy, Scikit-learn, Tidy models, caret

References available upon request.