

BONAKELE MDLETSHE

Johannesburg, South Africa | Bonasiwe@gmail.com |
linkedin.com/in/bonakelemdletshe

PROFESSIONAL SUMMARY

I am a data science practitioner with hands-on experience in data cleaning, data analysis, data visualization, and machine learning. I am passionate about leveraging data into actionable insights that support business decision-making. With a foundation in Python, SQL, Excel, and Power BI, I aim to grow my expertise while contributing meaningfully to dynamic, data-driven teams.

PROJECTS/WORK EXPERIENCE

Data Science Practitioner Intern – Explore AI

Project: Water Quality Classification (2025)

- Built a machine learning model to classify water quality using Kaggle data.
- Deployed the app using Streamlit to allow users to receive real-time water quality.
- Tools: **Python (Pandas, Scikit-learn), Matplotlib, Power BI**
- Achieved 98% accuracy using Random Forest Classifier.

Project: Anime Recommender System (2025)

- Developed a recommendation system for anime using both **content-based** and **collaborative filtering** techniques.
- Implemented **KNN Baseline model** for similarity-based recommendations.
- Deployed the app using **Streamlit** to allow users to receive real-time anime suggestions.
- Tools: **Python (Scikit-learn, Pandas), Seaborn, Streamlit**

EDUCATION

University of the Witwatersrand, South Africa
NQF Level 7, Bachelor of Science (BSc)

2018 – 2022

Majors: **Animal Science, Plant Science, Environmental Science**

TECHNICAL SKILLS

- Languages & Tools: **Python, SQL, Excel, HTML, CSS, JavaScript, Power BI, Matplotlib, Seaborn, Scikit-learn, MLOps**
- Core Skills: **Data Cleaning, Data Analysis, Data Visualization, Feature Engineering, Predictive Modeling, Hypothesis Testing, Deployment**
- Soft Skills: **Problem Solving, Communication, Team Collaboration, Time Management, Empathy, Adaptability**

CERTIFICATIONS

Data Science Practitioner – Explore AI (In Progress)

Commenced July 2024 (Remote)

Languages: **Python, SQL, Power Query**

Tools: **Excel, Power BI, VS Code, Scikit-learn, Matplotlib, Seaborn**

Skills: **Data Cleaning, Data Visualization, Feature Engineering, Predictive Modeling, Hypothesis Testing, Deployment**

Version Control: **Git, Github**

Introduction to Coding – SheCodes (Completed)

Dec 2023

Languages: **HTML, CSS, JavaScript**