BONAKELE MDLETSHE

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PROFESSIONAL SUMMARY

I am a data science practitioner with hands-on experience in data preparation, cleaning, analysis, visualization, and Predictive modelling. I am passionate about using the power of data to reveal actionable insights that support business decision-making. With a foundation in Python (libraries), SQL, Excel, and Power BI, I aim to grow my expertise while contributing meaningfully to dynamic, data-driven teams.

WORK EXPERIENCE   2024 – 2025

DATA SCIENCE PRACTITIONER INTERN – EXPLORE AI

Project: Anime Recommender System
- 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**

Project: Water Quality Classification
- 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.

CERTIFICATIONS   2025

AI and ML Schoolarship – **Udacity** with **AWS** (Completed)
Skills: Supervised learning, Unsupervised learning, NLP, Prompt Engineering from LLM systems (Generative AI)
Language: Python (Matplotlib, Seaborn, Scikit-learn)

EDUCATION   2018 – 2022

University of the Witwatersrand, South Africa
Bachelor of Science (BSc) - NQF Level 7
Majors: Animal Science, Plant Science, Environmental Science

SKILLS

Languages & Tools: SQL, Excel, Power BI, Python (Matplotlib, Seaborn, Scikit-learn), MLOps, Jupyter Notebook, MySQL

Technical Skills: Data Cleaning, Data Preparation, Data Analysis and Visualization, Hypothesis Testing, Feature Engineering and Selection, Predictive Modeling, Tune Model, Model Deployment, Supervised learning, Unsupervised learning, Git. Prompt Engineering

Soft Skills: Problem solving, Communication, Team Collaboration, Time Management, Empathy, Adaptability, Fast learner.