Contact

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https://github.com/AneleMaphalala

(Portfolio)

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(LinkedIn)

Key Skills

Python

R

SQL

Power BI

Tableau

Java

HTML

JavaScript

CSS

Machine Learning

Deep Learning

Test Driven Development

Data Analysis

Communication Skills

Team Collaboration

Analytical Skills

Problem Solving

Certifications

SQL: A Practical Introduction for Querying Databases (IBM)

Excel for Data Science (Great Learning)

Data Analytics using Excel (Great Learning)

Multivariate Time Series Forecasting in R (Great Learning)

R for Data Science (Great Learning)

Data Fundamentals (IBM)

Machine Learning Regression in Python (Udemy)

Java Intermediate (Sololearn)

Anele Asanda Maphalala

Junior Data Scientist

PROFILE

An enthusiast driven by a passion for problem-solving, continuous learning, and extracting meaningful insights from data to drive well-informed decision-making and innovation across various industries. Proficient in data wrangling, database management, data visualization using Power BI and Tableau, statistical analysis, machine learning, and deep learning, leveraging languages such as Python, R and SQL. Additionally, adept in test-driven development, software development, and web development using languages such as Java, JavaScript, HTML/CSS.

EXPERIENCE

Data Scientist · Intern · Sand Technologies
March 2024 – June 2024

- Contributed to a data science initiative addressing water loss in distribution networks using acoustic loggers.
- Collaborated with domain experts to align technical decisions with business objectives.
- Conducted comprehensive Exploratory Data Analysis to ensure model reliability, identifying false negatives and false positives.
- Implemented rigorous data preprocessing techniques for optimal model training.
- Selected, trained, and evaluated machine learning and deep learning models using frameworks such as PyTorch, TensorFlow, and Keras.
- Designed models to classify sound files from acoustic loggers, distinguishing between leak and no-leak conditions with high accuracy.
- Developed a PyTorch Convolutional Neural Network model achieving 84% accuracy and created a TensorFlow/Keras Recurrent Neural Network model achieving 85% accuracy.
- Generated detailed performance reports, providing actionable insights for iterative improvements.
- Integrated trained models into a Streamlit application, preprocessing audio files, extracting features, and determining leak presence.

Tools utilized: Python, Jupyter Notebook, Visual Studio Code, Google Colaboratory, Keras, Tensorflow, Pytorch, Streamlit, Git, GitHub

Data Analyst · Intern · InternCareer

Jan 2024 - Feb 2024

- 30-day online virtual task-based Data Science internship program.
- First project involved leveraging Python for comprehensive data analysis and manipulation.
- Second project involved leveraging Power BI's intuitive interface and interactive features to transform raw datasets into insightful dashboards for data visualization and reporting.

Tools utilized: Python, Jupyter Notebook, Visual Studio Code, Power BI, Git, GitHub

EDUCATION

ExploreAI Academy
July 2023 – June 2024
- National Certificate: Information Technology (Systems Development) · Data Science

WeThinkCode_
September 2022 – December 2023
- National Certificate: Information Technology (Systems Development) · Software Engineering

University of KwaZulu-Natal
January 2021 – December 2021
- Bachelor of Medical Science Honours · Microbiology

University of KwaZulu-Natal
January 2018 – December 2020
- Bachelor of Medical Science · Physiology

REFERENCES

Available upon request