Mahlatse Masemola

DATA SCIENCE GRADUATE

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Career Objective

I am a detail-oriented data science graduate with a strong theoretical foundation and hands-on experience in data visualization, data analysis, and programming. I am skilled in applying machine learning algorithms and analytical techniques to generate actionable insights and solve complex problems. Committed to continuous learning and professional development, I am eager to leverage my skills and knowledge to drive data-driven decision-making and contribute to innovative solutions.

Area of Expertise

Technical Skills: Python, R, Power BI, DAX, Google Sheets, Microsoft Excel, Matplotlib, Seaborn, MySQL, Pandas, NumPy, Scikit-learn, TensorFlow, Supervised and Unsupervised Machine Learning, Git, GitHub, Jupyter Notebooks and MLflow.

Soft Skills: Problem Solving, Presentation Skills, Effective Communication, Analytical Thinking, Effective Time Management, Leadership, Team Collaboration, Detail-oriented and Adaptably.

Experience

Peer Tutor (Volunteer)   **May 2024- Jul 2024**

Explore AI Academy

- Supported a student through one-on-one tutoring sessions, explaining complex concepts in Python, machine learning, and data science coursework.
- Assisted in troubleshooting code challenges and preparing for multiple-choice tests, ensuring the student stayed on track with their learning goals.
- Fostered a collaborative learning environment, enhancing the students' problem-solving abilities and boosting their confidence in tackling technical challenges.

Education

Data Science Learnership   **Jan 2024 - Present**

Explore AI Academy | Major: Data Science

- **Core Modules**: Python Programming, MySQL, Microsoft Power BI, Machine Learning
- **Key Project**:
  Anime Recommendation System: Collaborated with a team to build and deploy an anime recommendation system. Managed data cleaning, exploratory data analysis (EDA), and preprocessing to ensure the system's accuracy and effectiveness.

Postgraduate Diploma in Industrial Engineering   **Jan 2023 - Nov 2023**

Stellenbosch University | Major: Data Science

- **Core Modules**: R Programming, Big Data Technologies, Data Science, Applied Machine Learning, Data Analytics, Optimization
- **Key Project**:
  Airbnb Dataset Analysis: Collaborated with a team to analyse Airbnb dataset using the CRISP-DM process. Developed interactive dashboards in Power BI to visualize data insights and support decision-making.

BSc in Life and Environmental Science   **Feb 2019 – Nov 2022**

University of Johannesburg | Major: Biochemistry and Physiology

- **Core Modules**: Mathematics, Chemistry, Physics, Biochemistry, Physiology
- **Key Project**:
  Cell Viability Assay: Performed cell viability assays and analyzed results using Excel. Applied statistical methods including ANOVA, chi-square tests, and p-values to interpret biochemical data.

Languages

- English
- Afrikaans

- Sepedi
- Setswana