Confidence Thapelo Makofane

Graduate Economist and Informatics professional with a strong foundation in data analysis, economic modelling, and software development. Experienced in Python, data science, web development, and information systems through academic and personal projects, and student assistant roles. Adept at translating data into actionable insights and building technology-driven solutions in dynamic environments.

Midrand, Johannesburg, 1687

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https://confidence-makofane-portfolio.netlify.app

https://github.com/confidencemckay

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SKILLS AND PROFICIENCIES

Technical Skills
- C++
- Python (Pandas, NumPy)
- SQL
- Visualization (PowerBI, Tableau)
- Data Modelling

Analytical and Business Skills
- Analytical Thinking
- Critical Thinking
- Data Interpretation
- Problem Solving

WORK HISTORY

Machine Learning Intern
CodSoft | Mar 2025 - Apr 2025

Developed multiple machine learning projects applying data preprocessing, visualization, and supervised learning to real-world problems, including movie genre prediction using NLP (TF-IDF and Logistic Regression), credit card fraud detection using classification models, and customer churn prediction with class imbalance handling and ensemble methods.

Data Science Intern
CodSoft (Remote) | Dec 2025 - Jan 2025

Built data pipelines and performed data cleaning, analysis, and modelling using Python. Applied statistical and machine learning techniques to derive insights and predictive outputs.

Job Shadowing
National Institute for Communicable Diseases | Jul 2024

Gained hands-on experience in ETL, database administration, web development, and system data flow through a winter job shadowing program. Collaborated across teams to enhance communication and apply software engineering principles for data management and system maintenance.

EDUCATIONAL BACKGROUND

National Senior Certificate
The Kings' School White River, Nelspruit | 2021
Bachelor's Pass - Distinction in IT

Bachelor of Commerce in Economics with Informatics
North-West University, Potchefstroom | 2025

LANGUAGES

- American English (Native)
- French (B2 Certificate)
- Spanish (B1 Level)

CERTIFICATIONS

- MTN App Academy 2022
- FNB App Academy 2025
- License: Code C1

PROJECTS COMPLETED

Clinic Appointment DBMS
Systems Analysis and Design, NWU | 2024
A clinic appointment DBMS to assist clinic administration in managing patient appointments and staff. With an integrated reporting feature, summary reports can be generated more efficiently.

SQL Database Design
Databases, NWU | 2025
A SQL database for a clinic database management system designed and implemented on he Oracle platform.

Power BI Interactive Dashboard
Advanced Databases, NWU | 2025
A Microsoft Power BI Dashboard with interactive features and a MongoDB NoSQL database that utilizes a Kafka data pipeline.

Foreign Exchange Trading Model
Personal Project | 2025
A Metaquotes MetaTrade 5 executable trading model that uses Smart Money Concepts (SMC) trading logic to analyze charts and place trades. Include adjustable risk management features to provide configuration for different market conditions and instruments. (Model Complete. currently in testing)

REFERENCES

Mr. Phenyo Modisane
Lecturer | NWU
Phenyo.modisane@nwu.ac.za