TEMWEKA SCOLASTICA CHIRWA

Data Scientist

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SUMMARY

I am a data scientist with 4+ years of experience working in the data science space, with applications relating to ecological and medical research. My work mainly focused on machine learning and artificial intelligence applications in medical diagnostics. Before I transitioned into data science, I worked as a civil engineer interested in sustainable and environmental engineering. My research interests include machine learning, computer vision and AI applications in different fields such as medical diagnostics and climate change.

EXPERIENCE

Machine Learning Bootcamp Learning Assistant

GetSmarter, a 2U, Inc. brand

📅 November 2023 – Ongoing   📍 Remote, Part-time

Offering remote assistance to students in the Machine Learning and Artificial Intelligence Bootcamp Programmes, my role includes:
- Mentorship and guidance via Zoom session.
- Written and video support to students via Slack and Zoom.
- Grading of assignments and homework.

Data Science Research Assistant

Perinatal HIV Research Unit (PHRU)

📅 March 2021 – November 2023   📍 Soweto, Johannesburg

Helping the organisation utilise machine learning on their vast medical data to create innovative diagnostic tools. My roles and duties included:
- Developing ML tools for disease detection in low-resource settings.
- Creating patient monitoring and visualization tools for various clinical projects
- Proposal Writing and reviewing of abstracts
- Bi-weekly presentations and progress updates with collaborators.
- Presenting work at conferences, namely, Africomp 2022, and RED-Cap Africa Day (2022 & 2023)

Junior Civil Engineer

Zitholele Consulting

📅 February 2017 – January 2019   📍 Midrand, Johannesburg

Rising from intern to junior civil engineer, I was involved in various projects with roles that included:
- Conducting site supervision, works and payment verification on a water and sanitation provision project to rural schools in Limpopo.
- Managing logistical planning and environmental inspection on a derelict mines rehabilitation project.

EDUCATION

M.Sc. in Data Science

The University of Cape Town

📅 2019 – 2021

Thesis title: The detection and isolation of prey capture events in the animal-borne video

B.Sc. in Civil Engineering

The University of Witwatersrand

📅 2013 - 2016

TECHNICAL SKILLS

Python Tensorflow Scikit-learn R
MySQL PowerBI MongoDB ArcGIS
Statistical Analysis Research

VOLUNTEER WORK

Data Scientist

FemAnalytica

📅 2023 – Present   📍 Remote

Part of a team that aims to use our data science expertise to develop innovative data-based solutions for social good

Python Programming Teacher

LadyCode SA

📅 2021 – 2023   📍 Johannesburg

Taught Python to Grade 10 and 11 students from underprivileged schools in Alexandra Township.

REFEREES

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