MNCEDISI MNCWABE

DATA SCIENTIST, DATA ANALYST, ML ENGINEER

CONTACTS





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ABOUT ME



Proactive Data Scientist with expertise in analytics, machine learning, and statistical modeling to solve complex business challenges. Skilled in translating technical insights for diverse stakeholders and building collaborative relationships. Strengths include adaptability, rapid learning, and a strong work ethic. Passionate about leveraging programming, statistics, and ML tools to address theoretical and practical problems.

SKILLS



Machine Learning, Data Analysis, Predictive Analytics

Large Language Models (LLMs), MultiAgent AI, Retrieval Augmented Generation (RAG)

Time Series, Data Pipelines, CI/CD, Extract Transform Load (ETL)

SSMS, KNIME Analytics Pandas, NumPy, Scikit Learn, Matplotlib,

SQLServer, MySQL, BigQuery, PostgreSQL,

PySpark, Natural Language Processing (NLP)

Seaborn, Forecasting

Data Visualization, Data Manipulation, Data Cleaning

Data pre-processing, Feature Engineering, Model Building, Model Deployment

Problem Solving, Teamwork, Interpersonal Skills

Analytical Thinking, Change Management,

Agile Methodologies Event Analytics Tracking Design, Data

Architecture Design

Experimentation, A/B Testing

API Development, API Integration

EDUCATION



DATA SCIENCES University of Johannesburg

MASTER OF SCIENCE

2025

WORK READINESS PROGRAM

Henley Business School

2020 **BSC HONOURS**

STATISTICAL SCIENCES University of the Western Cape

BSC MATHEMATICAL AND

STATISTICAL SCIENCES University of the Western Cape

TOOLS

2019

2018



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JUN 2020

PRESENT

· Databricks, SQL, Python, PySpark, R

FREQUENTLY USED

TOOLS AND LANGUAGES

- · Jupyter, VS Code, LookML · Docker, Kubernetes, Datadog
- · Google Cloud Platform, Looker,
- Google Data Studio, AWS · SQLServer, MySQL, BigQuery,
- PostgreSQL, SSMS, KNIME Analytics · Microsoft Azure, Azure Machine Learning
- · Microsoft Power BI, Tableau, Google Suite, Microsoft Office

· SAS Base, SAS Enterprise Miner &

Guide, Nexidia Analytics

- GitHub, GitLab, Jira, Confluence, Slack, Microsoft Teams
- CERTIFICATION

· Amplitude, Notion

Microsoft Azure Fundamentals, Microsoft

· SAS Base, SAS

· Python and SQL for Data Science,

LINK

LinkedIn

DataCamp



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https://www.linkedin.com/in/mncedi si-lindani-mncwabe-a1b087171/

REFERENCES



References available upon request

WORK EXPERIENCE



JUN 2024

SENIOR DATA SCIENTIST avoba

1500ms to 280ms) and improved ML model availability by migrating recommendation models to GCP Spanner, reducing model downtime incidents from 2 per week to just 1 in 5 months (90% reduction in service interruptions). · Achieved 30% reduction in computational costs by migrating

· Achieved 81% reduction in API response latency (from

ML model processing from BigQuery to GitHub workflows, optimizing resource utilization while maintaining the same processing capacity and improving operational efficiency through automated workflows. · Developed and deployed multiple high-impact machine

learning models including Games, Articles, Services

- Recommendations based on user activity and geolocation. Dormant Users Retention Prediction model, and Contact Chat Recommendations, driving increased user engagement and retention across the Ayoba app. Implemented automated monitoring systems through CI/CD
- pipelines for early detection of model degradation, ensuring continuous data quality checks and proactive identification of potential issues before impacting business operations.
- · Provide technical guidance to junior team members.

JUN 2024

SEP 2022

SENIOR DATA SCIENTIST

through implementing a machine learning demand forecasting model to predict hourly orders, achieving 85% prediction accuracy rate in predicting actual orders.

· Enhanced driver capacity planning for on-demand clients

- Achieved a 30% reduction in kilometres driven and average of 36 minutes reduction in time spent on the road by drivers through developing and implementing a machine learning route planning algorithm for Loop's Logistics clients.
- · Implemented dashboards in Looker or Google Data Studio to drive actionable insights for On-demand and Logistics clients to enhance their daily operations and customer experience.
- relationships between Looker and SQL databases. · Build data pipelines using Databricks to streamline data

Use LookML to build data models to enhance data

processing and integration, enabling analytics and actionable insights. This significantly improves data accuracy and accessibility, enhancing decision-making.

AUG 2022

DATA SCIENTIST takealot.com

AUG 2021

implementing a time series daily sales forecasting model, achieving 80% accuracy rate in predicting actual sales. · Optimized profitability of promotions by developing and

· Enhanced inventory optimization by developing and

- implementing a machine learning linear regression model for strategic pricing. · Implemented a stock optimization model to find optimal
- prices to clear dead stock and achieved a 60% sell-through Implemented an RFM (Recency, Frequency, Monetary)
- Built a profit margin impact tool, a tool that suggests the best or optimal price to maximize profit margin of promotional products.

· Developed a probabilistic Logistic Regression model that

an estimate of 3 hours of daily manual work though

statistical model for advanced customer segmentation.

- predicts the likelihood of a product to have a high return rate. • Enhanced the efficiency of the planning team by saving them
- automating the daily stock on hand report using Microsoft Power BI and Python. · Used Looker or Google Data studio to automate reporting of products pricing versus competitor pricing to ensure

EXPLORING AI & DATA SCIENCE | PERSONAL

PROJECTS

Takealot's pricing is market fit.

Self-Employed · Developed a recruitment automation system that automates manual candidate search for recruitment headhunting and to

enhance best fit candidate matching.

systems to optimize itineraries with real-time flight, accommodation, and activity recommendations. · Designed a multi-agent RAG system leveraging LlamaIndex

· Developed an Al-powered travel planner using multi-agent

rank candidates by matching job descriptions to further

repositories via automated workflows. · Engineered automated pipelines to track and analyze trending Al/data science topics, helping me stay up-to-date with industry trends.

Built a Python web app for product price comparison across

to extract insights from videos, research papers, and GitHub

- retailers, aiding informed purchasing decisions. · I author and publish blogs on Analytics Vidhya, covering topics in statistics, data science, Al applications, and
- MACHINE LEARNING GRADUATE / DATA ANALYST MultiChoice Group

FEB 2020

AUG 2021

76% accuracy, outperforming manual predictions. Increased fraud detection rate by 7% across the business

· Built a machine learning Logistic Regression model to predict

over 7 million customers payback behavior and achieved

using a machine learning Robust Random Cut Forest model

technical tutorials.

that correctly classified over 200 cases of fraudulent activities. · Enhanced customer experience within the Business

Operations department by improving decision-making

- processes, achieved through the development of actionable insights using Power BI dashboards. · Implemented reporting dashboards to actively monitor trends and KPIs, providing vital quality analysis for contact centers.
- Enabled quikcer decision making for HR & Payroll functional departments through data quality monitoring and reporting using Power BI.

· Reduced average customer call wait time and enhanced productivity of inbound call center agents through automating

manual tasks using Microsoft Power Automate.

· Effectively utilized Nexidia Analytics for in-depth speech analysis, leading to significant improvements in customer engagement and resolution of customer issues.

NOV 2019

FEB 2017

ASSISTANCE

TUTOR, TEAM LEAD: ADMIN STUDENT

University of the Western Cape

- · Led a team of student assistants that managed to assist over 200 first year students with successful and seamless registration process.
- · Provided tutorial sessions and helped third year Mathematics and Statistics students pass Statistics, R and SAS programming.