

MNCEDISI MNCWABE

DATA SCIENTIST / DATA ANALYST

CONTACTS



- (+27) 71-732-9160
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- Cape Town, South Africa

SKILLS



- Machine Learning, Data Analysis, Predictive Analytics, Time Series, Data Pipelines
- Pandas, NumPy, Scikit Learn, Matplotlib, Seaborn, Forecasting, PySpark, NLP
- Data Visualization, Data Manipulation, Model Building
- Data Cleansing, Data pre-processing, Feature Engineering
- Problem Solving, Teamwork, Interpersonal Skills, Analytical Thinking, Change Management, Agile Methodologies
- Event Analytics Tracking Design, Data Design, Experimentation, A/B Testing

EDUCATION



WORK READINESS PROGRAM
Henley Business School
2020

BSC (HONS) STATISTICAL SCIENCES
University of the Western Cape
2019

BSC MATHEMATICAL AND STATISTICAL SCIENCES
University of the Western Cape
2018

TOOLS



TOOLS AND LANGUAGES FREQUENTLY USED

- Databricks, SQL, Python, PySpark, R, Jupyter, LookML
- SQL Server, MySQL, Big Query, PostgreSQL, SSMS, KNIME
- Google Cloud Platform, Looker, Google Data Studio
- Microsoft Azure, Azure Machine Learning
- Microsoft Power BI, Tableau, Google Suite, Microsoft Office
- SAS Base, SAS Enterprise Miner & Guide, Nexidia Analytics
- Gitlab, Github, Jira, Slack, Teams
- Amplitude, Notion

CERTIFICATION



- Microsoft Azure Fundamentals, Microsoft
- Python & SQL for Data Science, DataCamp
- SAS Base, SAS

REFERENCE



AVAILABLE UPON REQUEST

LINKS



- LinkedIn
<https://www.linkedin.com/in/mncedisi-indani-mncwabe-a1b087171/>

ABOUT ME



Mncedisi is a proactive, ambitious and curious Data Scientist with a positive attitude and passion to uncover answers to major business questions through data analytics, modelling and machine learning along with business sense. He is adaptable and open to learn new concepts in Data Science or Analytics space to continuously build on his previous knowledge and add value. He considers a great work ethic, proactiveness, his ability to learn and adapt quickly as his greatest strengths. He has an ability to present insights to a wide spectrum of stakeholders, build and maintain relationships. His professional interests are using his toolbox of programming, machine learning, statistics, and probability to solve challenging problems. These problems can be theoretical or practical in nature.

WORK EXPERIENCE



SEP 2022
PRESENT

SENIOR DATA SCIENTIST
Loop

- Enhanced driver capacity planning for on-demand clients through implementing a machine learning demand forecasting model to predict hourly orders, achieving 85% prediction accuracy rate in predicting actual orders.
- 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.
- Use LookML to build data models to enhance data relationships between Looker and SQL databases.
- Build data pipelines using Databricks to streamline data processing and integration, enabling analytics and actionable insights. This significantly improves data accuracy and accessibility, enhancing decision-making.

AUG 2021
SEP 2022

DATA SCIENTIST
takealot.com

- Enhanced inventory optimization by developing and implementing a time series daily sales forecasting model, achieving 80% accuracy rate in predicting actual sales.
- Optimized profitability of promotions 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 rate.
- Implemented an RFM (Recency, Frequency, Monetary) statistical model for advanced customer segmentation. This strategic initiative enabled the business to identify various customer groups, including valuable, churned, and loyal customers. This improved targeted marketing strategy that maximizes sales and enhances the overall customer experience.
- 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 predicts the likelihood of a product to have a high return rate. This enabled the business to quickly identify and switch off poor quality products and therefore reduce the risk of losing sales through these products.
- Enhanced the efficiency of the planning team by saving them an estimate of 3 hours of daily manual work though 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 Takealot's pricing is market fit.

FEB 2020
AUG 2021

MACHINE LEARNING GRADUATE / DATA ANALYST
MultiChoice Group

- Built a machine learning Logistic Regression model to predict over 7 million customers payback behavior and achieved 76% accuracy, outperforming manual predictions.
- Increased fraud detection rate by 7% across the business using a machine learning Robust Random Cut Forest model 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. This directly contributed to enhanced performance through data-driven recommendations and strategic improvements.
- Enabled quicker 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.

FEB 2017
NOV 2019

TUTOR, TEAM LEAD: ADMIN STUDENT ASSISTANCE
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.