

Mbongeni Mzila

Data Scientist and Analytics Professional

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PROFESSIONAL EXPERIENCE

Pepkor (July 2022 - Present)

Data Scientist

- Utilized Python to implement supervised machine learning for time series anomaly detection to unstructured telecommunications data which flagged anomalies and increased the companies' bonus payout by 10%.
- Utilized SQL to extract BigData from BigQuery and created dashboards used by various business stakeholders.
- Utilized Python to implement a classification model to determine customer lifetime value segment movements which streamlined target marketing and saved costs.
- Collaborated with cross-functional teams to design, implement and enhance novel algorithms and models using TensorFlow, PyTorch, Keras, and scikit-learn.
- Presented results and findings to various stakeholders and wrote a requested executive summary detailing value proposition and strategy.

Lulalend (June 2021 - June 2022)

Data Analyst

- Analyzed stakeholder reporting requirements from both data and functional perspectives, ensuring alignment with business goals.
- Conducted in-depth data analysis to derive actionable insights, contributing to informed decision-making.
- Demonstrated excellent problem-solving skills and collaborated effectively within a team environment.
- Utilized credit bureau data to perform thorough credit risk analysis, providing recommendations for risk mitigation strategies.
- Built and optimized credit models using Python and machine learning methodologies.
- Adjusted, maintained, and configured existing ETL processes to ensure timely and accurate delivery of reports.
- Engaged in regular interaction with internal stakeholders to keep them informed about data insights.
- Developed and maintained automated reports to monitor key performance metrics, tracking progress toward business goals.
- Communicated data-driven insights to non-technical stakeholders through clear and concise presentations and reports.

LifeCheq (June 2018 - May 2021)

Various Roles (Customer Relations Management Analyst, Marketing Analyst, Financial Advice Analyst)

- Played a key role in data analysis, automation, and process optimization.
- Conducted analytical research, built tools, and contributed to marketing campaigns.
- Built tools for inhouse teams to manage clients using Google Sheet and Javascript
- Responsible for data collection, cleaning and transferring across departments
- Conducted analytical research projects for the Marketing team using Google sheets and communicated findings to other stakeholders for decision making
- Responsible for hands-on modeling and analyzed marketing campaigns to determine the best mix of channels and messaging
- Optimized and measured social media campaigns using data and research findings
- Requirements gathering; translating requirements into detailed user stories

EDUCATION AND HONORS

ExploreAI Academy

- Data Science course **(2023)**
 - **Overall Average: 87%**
 - **Relevant Coursework:** Supervised and Unsupervised Machine Learning, Data Visualisation, Data Science Statistics, Big Data Analytics

Udemy.com

- Advanced Data Science with Python. **(2022)**
- Advanced BigQuery. **(2022)**
- Python and Django Full Stack Web Developer Bootcamp **(2022)**
- Clean Code, Streamlit with Python courses completed **(2021)**
- Python, SQL, and Tableau courses completed **(2020)**

University of Pretoria

- Mathematical Statistics (Honors) (2015 - 2016)
- Bachelor of Science in Actuarial and Financial Mathematics (2011 - 2014)

SKILLS

- **Programming Languages:** Python, R, SQL, Javascript, HTML, CSS
- **Big Data and Machine Learning:** BigQuery, MongoDB, Azure, Python(scikit-learn, Tensorflow, numpy, pandas, matplotlib), TensorFlow, PyTorch, Keras, and NLTK
- **Data Science & Miscellaneous Technologies:** Google Data Studio, streamlit, ETL, Data science pipeline(cleansing, wrangling, visualization, modeling, interpretation), A/b Testing, Statistics, Time series, Experimental design, Hypothesis testing, OOP, APIs, Excel, Git, Docker, GCP