

GIOVANNI MOSTERT

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ABOUT ME

I am a Data Engineer with over 12 years experience in the telecommunications industry, specializing in Big Data acquisition, processing and analysis. I am adept at building models and data pipelines for Big Data Analytics. I am also experienced in Artificial Intelligence (AI) and Machine Learning (ML) algorithms that make sense of large volumes of data, and add value to raw data. My focus is on enabling effective decision making by assembling data via structured patterns and models, creating compelling visualizations for data storytelling and furthering business objectives by leveraging powerful data processing abilities. I am a creative problem solver and have a team-oriented attitude. I value honesty and integrity and welcome positive criticism.

PERSONAL DETAILS

Nationality - Namibian Citizen

Ethnicity - Baster

Date of Birth - 23 February 1984

Namibian ID - 840223 1003 0

Drivers License - Namibia Drivers License Code B

Languages - English *fully proficient*, Afrikaans *fully proficient*

Marital Status - Married

Health Status - Excellent health

Disabilities - None

EDUCATION

Namibia University of Science & Technology Certificate in Big Data Technologies	Windhoek, Namibia 2020
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Namibia University of Science & Technology Bachelor of Informatics	Windhoek, Namibia 2018
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University of South Africa Bachelor of Arts: Psychology & Sociology	Distance Learning 2007
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SKILLS

Languages and Tools - *advanced*: SQL, Python, R, PowerBI, PostgreSQL, Excel, Linux/UNIX *intermediate*: Spark, Hadoop, Tableau, SQL Server

Focus Areas - Data analysis & visualization, Big Data Analytics with Apache Spark, Hive & Hadoop, Programming in Python, Big Data pipelines, ETL & ELT processes, Online Analytical Processing (OLAP) database management, data warehouse management, meta data management, dashboard creation & maintenance, forecasting & time-series analysis, development of pricing models, Regression analysis, Classification, Bayesian Machine Learning models.

EXPERIENCE

MTC Namibia <i>Data Analytics & BI Developer</i>	WINDHOEK, NAMIBIA Aug 2023-Present
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- Reporting for business goals such as market analysis, services consumption trends & pricing models
- Analysis of Big Data data sets using SQL, Python, R and Analytical databases.
- Develop & maintain Extract Transform & Load (ETL) pipelines for data availability.
- Data acquisition, data manipulation & modelling for data exploration & visualization.
- Design & implementation of data pipelines to facilitate reporting.
- Reporting via dynamic dashboards with PowerBI, Excel and R to display Key Performance Indicators.

MTC Namibia <i>Core Network Engineer</i>	WINDHOEK, NAMIBIA May 2015-Present
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- Develop models to analyze & report on product pricing scenarios.
- Dashboard & report creation to display Key Performance Indicators.
- System maintenance and administration of production SQL databases and data pipelines.
- Combat fraudulent activities using Fraud Detection System custom developed in Python.

MTC Namibia

Statistics & Data Administrator

WINDHOEK, NAMIBIA

Oct 2011-May 2015

- Executive KPI reporting & dashboards.
- Analysis & forecasts of network performance.
- Documentation, data management and archival of data and reports.

Survey Warehouse

Senior Researcher, Media Monitoring

WINDHOEK, NAMIBIA

2009-Oct 2011

- Statistical mining and analysis of collected media monitoring data to yield customer insight reports.
- Analysis, forecasts and optimization of brand management based on sentiment analysis.
- SQL database administration and maintenance.

Survey Warehouse

Junior Researcher, Media Monitoring

WINDHOEK, NAMIBIA

2008-2009

- Analysis of media monitoring data using SPSS, Excel as well as SQL.
- Pre-processing, cleaning data for analysis.
- SQL database administration and maintenance.

Media Tenor Namibia

Media Analyst

WINDHOEK, NAMIBIA

2007-2008

- Data entry and capture onto SQL database.
- Limited SQL database administration and maintenance.

NOTABLE PROJECTS

IMSI Verification Application Programming Interface

November 2023

- Spearheaded the architecture of a SIM Verification API implemented over USSD mobile channel. A HTTP API-call is performed in-session during the USSD transaction to verify that a customer is not using a cloned SIM card. The system is used by banks to combat SIM cloning fraud.

USSD Pricing Model with Linear Regression Forecasting

October 2023

- Developed a comprehensive pricing model for USSD services that allows the organization to forecast and predict pricing changes for USSD services. The analysis also included sensitivity analysis to factor in customer usage variability. SQL and PowerBI was used the analysis and reporting.

COVID-19 Tweet Sentiment Analysis with Web App

2022

- As part of a multi-disciplinary team, implemented a Sentiment Analysis machine learning model based on 40 million COVID-19 tweets to help inform public sentiment regarding governmental agencies health messaging on COVID-19 topics. Developed using Ensemble methods and corrected with Logistic Regression, the model achieved an accuracy of 79%. It was deployed using a web application that allowed users to enter a message, and adjust their messaging to a more positive sentiment score. This project won the 1st Place prize at the 2022 DARA/NUST Hackathon.

Fraud Detection System

2018

- Architected, developed and implemented a Fraud Detection System for incoming calls on the cellular network. The system scans call records generated by network equipment to heuristically generate alert notifications to technical teams informing of possible fraud calls. The solution was implemented in SQL and Python. This system saved approx. N\$1.4 million for my organization.

Automation of Marketing Reports in Python

2016

- Automated various product-focused Marketing reports in Python. Python was used for the analysis, while Linux scripting was used to automate file transfer and archiving. This automation reduced reporting time from 4 hours to 10 minutes.

HONOURS & AWARDS

1st Place Winner, COVID-19 Tweet Sentiment Analysis with Web App *NUST/DARA Data Science* 2022
2022 Hackathon

Count on Me Certificate of Excellence for Fraud Detection System *MTC Namibia*

2018

Chief Technology Officer's Award for Outstanding Service *MTC Namibia*

2013

Best 1 st Year Student (Overall) <i>Namibia University of Science & Technology</i>	2015
Best 1 st Year Student (Dept. of Informatics) <i>Namibia University of Science & Technology</i>	2015

CERTIFICATION

NAMS/ISO/IEC 27001:2021 Development & Implementation of Information Security Framework <i>Namibia Standards Institute</i>	2022
Dialogic BorderNet Session Border Controller Certified <i>Dialogic Corp.</i>	2020
CS Core Telecommunications Advanced <i>Huawei</i>	Aug 2017
CS Core Telecommunications Fundamentals <i>Huawei</i>	May 2017
A+ Certification <i>CompTIA</i>	2006

COMMITTEES, MEMBERSHIPS & OTHER ACTIVITIES

Data Governance Project Team Member <i>TM Forum</i>	2023
Fire Marshall Rep. <i>MTC Health, Safety & Environment Committee</i>	2022-Current
Health & Safety Rep. <i>MTC Health, Safety & Environment Committee</i>	2013-2015

REFERENCES

Gene de Klerk

COORDINATOR: VALUE ADDED SERVICES
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