Gervian V. Du Preez

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Data Scientist

About Me

"If you give a man a fish, you feed him for a day. If you teach a man to fish, you feed him for a lifetime."
~Chinese Proverb~

Machine Learning:	Unsupervised & Supervised ML (Scikit-learn, TensorFlow)
Languages:	Python, **SQL**, C#, R, SAS (EM & EG), Excel
Tools:	Anaconda, **SSIS(ETL), SSMS, Power BI**, Plotly-Dash, Heroku, GitHub
Project Management:	Lead Dev Capricorn Private Wealth & Asset Management
Upskilling:	Data Engineering, MindsDB

Experience

Bank of Namibia
Principal Software Engineering: Clint Pick (Clint.Pick@bon.com.na)

INFORMATION TECHNOLOGY DEPARTMENT: SOFTWARE ENGINEER   *Windhoek, Namibia Aug. 2022 - Present*

- Develop Relational Database (DB), ETL pipelines and batch procedures (SSIS, C#) to export data to DB (SQL, SSMS)
- Develop Power BI dashboard from DB for Research Department with the objective automating MPC reporting

NATIONAL PAYMENT SYSTEMS DEPARTMENT: PAYMENTS ANALYST   *Windhoek, Namibia Feb. 2022 – Jul 2022*

- Perform Regulatory Oversight duties as is derived from the Payment System Management Act, 2003 (Act No. 18 of 2003), to ensure a safe, secure, efficient, and cost-effective operation of the National Payment System
- Utilize various dashboards and data to develop risk assessments of banks and non-banks participating in the National Payment System
- Assist in the Automation Project to develop an end-to-end SQL solution on Azure Cloud (PaaS)

Capricorn Private Wealth
Executive: Fouche Brand (Fouche.Brand@capricorn.com.na)

GRADUATE ACCELERATED PROGRAM: DATA SCIENTIST   *Windhoek, Namibia Aug. 2021 - Feb. 2022*

- Develop Equity Portfolio optimization techniques using a data driven and/or machine learning (Riskfolio-Lib)
- Web Scrape financial statements and data using various APIs in Python (yahoo finance, BeautifulSoup)
- Develop a contribution model with an integrated Dashboard for Private Bankers to assist in cross-selling & up-selling with the objective of maximizing contribution for CPW (SQL: EDW, Power BI, Plotly-Dash)
- Automate the Capricorn Asset Management monthly Wealth Report i.e., Data Importing, Cleaning and Exporting
- Develop a dynamic Portfolio Performance Tracker with an integrated Dashboard for Wealth Managers

Capricorn Group
BMI Head of Actuarial Science: Janette.Larney@nwu.ac.za

RESEARCHER – BMI MASTERS INDUSTRY PROJECT   *Windhoek, Namibia July. 2020 - Jan. 2021*

- Profile Bank Windhoek customers using **UNSUPERVISED Machine Learning** (SAS EM: K-means Clustering) by analyzing data (Transactional Behavior, Spending Patterns, Risk Profile and Card Usage)
- Develop a Propensity-to-Buy Model using **SUPERVISED Machine Learning** (SAS EM: Neural Networks etc.)

Education

North-West University

MASTERS IN BUSINESS MATHEMATICS INFORMATICS (BMI)   *Potchefstroom, South Africa Jan. 2020 - Mar. 2021*

- Specialization in Data Science (Data Mining and Business Intelligence), MSc internal project (Plagiarism Detection dashboard in R and R-Shiny), Capricorn Group data driven cross-selling and up-selling MSc. research project.

HONOURS BSc. IN QUANTITATIVE RISK MANAGEMENT   *Potchefstroom, South Africa Jan. 2019 - Dec. 2019*

- Specialization in Quantitative Risk Modelling, Financial Engineering, Investment Management, and Advanced Statistical Analysis (Time Series and Multivariate Statistics), R & SAS programming

BACHELOR OF SCIENCE IN QUANTITATIVE RISK   *Potchefstroom, South Africa Jan. 2016 - Dec. 2018*

- Specialization in Actuarial Core Technicals (Economics, Financial Mathematics, Modelling and Probability), Computer Science & Information Technology (C# & VBA), Statistics (R & SAS), Calculus (Matlab)