JEAN PAUL IZABAYO

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OBJECTIVE STATEMENT

Data Scientist with 3 years of experience in data analysis. Aiming to use Data Science, Machine Learning, and Data Engineering skills to help industries make data-driven decisions and maximize productivity.

PROFESSIONAL SKILLS

- **Computing:** Python, SQL, PostgreSQL, PowerBI, Linux, DBT, PipelineWise, Airflow, Jenkins, Spark, and Flask.
- **Professional:** Problem Solving, Technical Writing.
- **Languages:** English (fluent), French, and Kinyarwanda.

EDUCATION

Master of Science: Electrical and Computer Engineering   **Graduation: December 2019**

Carnegie Mellon University-Africa - Kigali, Rwanda

- Predicted the likelihood of a client to open a term deposit account using random forest machine learning algorithm.
- Performed credit modelling using machine learning: Predicted if a borrower is likely to pay off their loan on time or not.
- Used Maximum likelihood estimation and Weibull algorithm to analyze the customer behaviors (customer churn) in business analytics.
- Assessed the ability of quantitative models (KNN, Decision tree, and ensemble methods) to forecast excess returns on a monthly basis.
- Worked with AWS to store big data and train deep learning models using EC2 instances.
- NoSQL: Built an XML database to store department's details at CMU Africa.
- Major in Data Science, Machine Learning, and Deep Learning.

Course Work

- Data, inference, and Applied Machine Learning.
- Introduction to Deep Learning.
- Advanced Database Systems.
- Advanced Business Analytics.
- Big Data Science.
- Data Structures and Algorithms for Engineers.

Bachelor of Science: Electronics and Telecommunications   **Graduation: June 2017**

University of Rwanda

- Specializations: Image processing

Business Intelligence Developer   **2021-02 - Present**
BBOXX ltd.   Kigali, Rwanda

- Worked with the Lead Data Scientist to develop the upgrade machine learning model to automatically predict if a customer is eligible for a sale or not.
- Participated in scoping the propensity upgrade ML model project that predicts the customer behavior by providing the likelihood of upgrading to a new product.
- Helped the Business Intelligence side of the Data Insights Team to create effective dashboards such as the Finance Dashboard that helped the business to thrive.
- Interacted with business stakeholders to collect the requirements for the new dashboards features.
- Worked with the Product Owner to write stories and to better understand the requirements from the Business Analysts.
- Collaborated with the Data Engineers in using DBT and SQL to develop automated data transformations in creating the data warehouse using redshift.
- Used git to maintain our git repositories on GitHub for the existing data warehouse as well as the new data warehouse projects.

Data Scientist   **2020-01 – 2021-01**
MCyberist ltd.   Kigali, Rwanda

- Worked on the project to help patients' mental health by developing data collection techniques to collect data from individuals who used our platform.
- Performed data analysis on the data related to mental health to provide insights on patients with mental health issues.
- Used Pandas and Numpy to perform exploratory data analysis for data stored in the company's database.
- Lead the data analytics projects especially on data preparation and visualization steps.

Data Scientist   **2019-05 – 2019 -10**
Afrinic ltd.   Ebène, Mauritius

- Manipulated and organized data using SQL.
- Worked with Google BigQuery REST API to get the external data.
- Managed to perform data cleaning & preprocessing and wrote a python script for automating the task.
- Remotely conducted data analysis to detect the usage of network address translation in Africa and managed to find 663 usages out of 667 sampled Internet service providers.
- Used feature engineering and Exploratory Data Analysis (EDA) to select 7 important model features.
- Built a classification ML model using random forest for network address translation usage.
- Used Gitlab to manage our git repositories.

ACTIVITIES

- Member of TRES Toastmasters club.
- Member of Data Science club at Carnegie Mellon University Africa.