

SABELO MSIMANGO



During the 6 month period of the IT: Systems Support learnership programme at The Digital Academy **Sabelo** and his team created a mobile application called **E-commerce Fraud Predictions**.

Sabelo's main responsibilities on the project were Model building, Model deployment, and Data Visualisation.

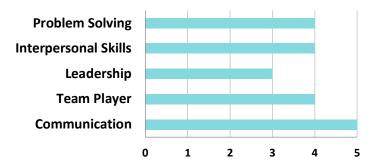
I would have no hesitation in recommending **Sabelo** as Junior Data Scientist. He has demonstrated strong technical skills and understanding of the technologies he has used. He is able to work individually and in a team with equal proficiency.

SOFT SKILLS

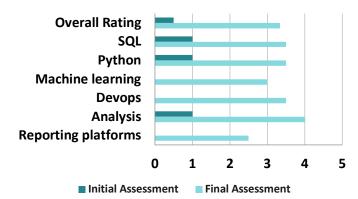
Sabelo's most improved competency:

Team player

The skill to venture on with strong resolve and persistence, committed to getting the job done and works well within a team.



TECHNICAL SKILLS



Primary Skills

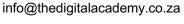
Secondary Skills

SQL Python Analysis DevOps Machine Learning Reporting platforms

Dylan Knevitt (Technical Manager) Melisha Moodley (Programme Manager) Gary Bannatyne (MD & Co-founder)









Eccomerce Fraud Prediction

Promo pack

Problem Statement

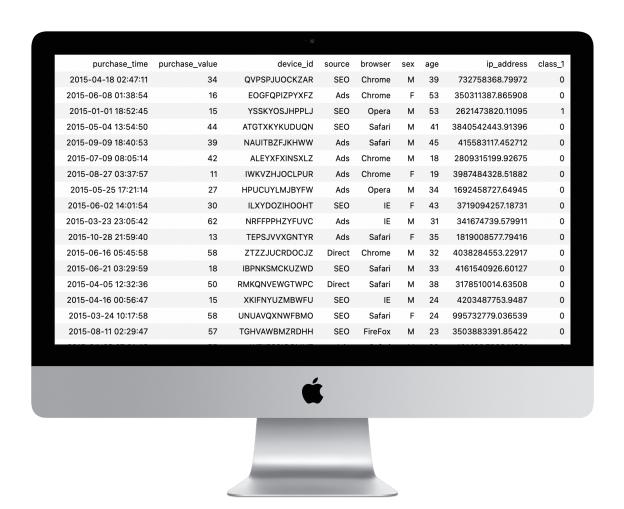
For fraud detection on e-commerce platforms, many fraud detection algorithms have focused on financial crimes such as credit card frauds and risky accounts. Online fraud occurs when fraudsters use digital channels to infiltrate a customers' online account to make fraudulent purchases.

Solution

To develop a model that identifies fraudulent activities in a timely manner to prevent any theft.



Data Set



Fraud data containing a sample of users with information such as user id, gender, age, signup_time, purchase time, device id, ip_address, and whether they committed fraud or not. it has 151112 rows and 11 columns.

Analysis Dashboard



We compare the total number of IP addresses per browser to check which browser was used the most and which one was used less, it also counts the total number of IP addresses that were used per browser. We also compared the number of purchased items in each browser, and the source of transactions that help us to determine whether you use an Ad which is a pop-up on the internet, SEO straight to search engine, and direct which is the actual application. Classification of fraud is the actual feature that determines if a person has committed fraud or not.

Model Predictions



A User is requested to enter a number of features in the UI. These features will then be fed into a machine learning model trained with a historical Dataset in order to classify a transaction as fraudulent or not.