Sharon Muiruri

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SKILLS

- **Programming Languages:** Python, SQL
- **Tools and Technologies:** Scikit Learn, Pytorch, Tensorflow, Docker, Kubernetes, Spark, Hadoop
- **Machine Learning:** Supervised and Unsupervised Learning, Natural Language Processing
- **Soft Skills**: Communication, Team work, Problem solving

EXPERIENCE

Zizu Investments Limited 04/2023 - 07/2024
Receptionist
- Provided clients and prospective clients with information regarding products and services offered.
- Prepared lease agreement contracts, tender documents as well as company profile documents.
- Processed leave applications for employees on the wingubox system.
- Handled queries and complaints via phone, email and general correspondence.
- Prepared monthly muster roll reports for employee attendance.

Flapmax AI Institute 09/2022 - 12/2022
Data Science Intern
- Deployed and customised a Commerce Marketplace SaaS Accelerator on Microsoft Azure.
- Deployed 2 FastAPI applications on Kubernetes and Docker container.
- Collaborated with other development teams to build a car damage detection model using Mask-RCNN.

EDUCATION

Massachusetts Institute of Technology
Data Science and Machine Learning Certificate, 2022 - 2023
Awards & Honors: Grade A

Jomo Kenyatta University of Agriculture and Technology
Bachelor of Business Information Technology, 2018 - 2022
Awards & Honors: Second Class Honors

TECHNICAL PROJECTS

Credit Card Default Prediction | Personal Project
- Developed a model to predict which customer will default his/her credit card payment.
- Utilised Python libraries such as sci-kit-learn and pandas for data cleaning, analysis and modelling. I then performed feature engineering and used SMOTE to balance the dataset.
- Built 5 classifier models: Logistic Regression, Decision Trees Classifier, Random Forest Classifier, Gradient Boosting and XGBoost. The best performing model was the Random Forest with the highest ROC AUC score.

Store Sales Forecasting | Personal Project
- Engineered a predictive model to forecast 6 weeks of daily sales for 1115 Rossman stores.
- Utilised Python libraries such as sci-kit-learn and pandas for data analysis and modelling, imputed the missing values and performed outlier treatment using Z-score.

- Built 4 regression models: Linear Regression, Stochastic Gradient Descent Regressor, Decision Trees Regressor and Random Forest Regressor. The best performing model was the Random Forest with the lowest RMSE score of 726, and highest R2 score of 0.96.

Hotel Booking Cancellation Prediction | Personal Project
- Developed a model that can predict which booking in the hotel is going to be cancelled in advance and also help in formulating profitable policies for cancellations and refunds.
- Performed univariate and bivariate analysis to analyse the data and find which factors have a high influence on booking cancellations in the hotel.
- Built 4 classification models namely: Logistic Regression, Support Vector Machine, Decision Trees and Random Forest. The best performing model was the Random Forest with an accuracy score of 90%.

LANGUAGES

English
Kiswahili

REFERENCES

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