Sharon Muiruri

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SKILLS

Programming & Databases: Python (Pandas, NumPy, Scikit-learn), SQL, MongoDB
Data Visualization: Tableau, Power BI, Matplotlib, Seaborn
Machine Learning: TensorFlow, PyTorch, Scikit-Learn, Neural Networks, Keras
Big Data & Devops: Apache Spark, Hadoop, Docker, Kubernetes,
Cloud Platforms: Microsoft Azure
Soft Skills: Effective communication, Critical thinking, Adaptive team player, Problem-solving

EXPERIENCE

Codsoft   Sep 2023 - present
Machine Learning Intern
- Engineered data pipelines and developed predictive machine learning models to address business challenges, resulting in a 15% improvement in decision-making efficiency.
- Built and deployed a customer churn prediction model, achieving a 20% increase in customer retention rates through targeted interventions.
- Enhanced a fraud detection classification model by improving preprocessing and feature engineering, leading to a 10% increase in model accuracy.

Zizu Investments Limited   April 2023 - July 2024
Receptionist
- Assisted over 30 clients and prospective clients per week by providing detailed information about products and services, improving customer satisfaction by 30%.
- Prepared lease agreements, tender documents, and company profile documents with 100% accuracy and compliance, reducing document errors by 25%.
- Managed employee leave applications using the Wingubox system, streamlining HR processes by reducing manual effort by 40%.
- Addressed and resolved client and employee queries and complaints efficiently through phone, email, and general correspondence, enhancing client communication by 20%.
- Compiled monthly muster roll reports with a 98% accuracy rate, effectively tracking employee attendance and maintaining up-to-date records.

Flapmax AI Institute   Sep 2022 - Dec2022
Data Science Intern
- Implemented and customized a Commerce Marketplace SaaS Accelerator on Microsoft Azure, enhancing system scalability by 30% and improving performance metrics.
- Deployed two FastAPI applications using Kubernetes and Docker, improving containerization and orchestration efficiency by 20%.
- Collaborated with cross-functional teams to develop a car damage detection model using Mask-RCNN, increasing object detection accuracy by 15%.

EDUCATION

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

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

PROJECTS

Credit Card Default Prediction
- Engineered a predictive model to identify customers likely to default on credit card payments.
- Utilized scikit-learn and pandas libraries for data cleaning, analysis, and modeling, conducted feature engineering and applied SMOTE to balance the dataset.
- Built and evaluated five classification models: Logistic Regression, Decision Trees, Random Forest, Gradient Boosting, and XGBoost, with Random Forest achieving the highest ROC AUC score.

Store Sales Forecasting
- Created a predictive model to forecast six weeks of daily sales for 1,115 Rossmann stores.
- Performed data analysis, handled missing values and performed outlier treatment using Z-score.
- Developed and evaluated five 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 highest R2 score of 0.96.

Hotel Booking Cancellation Prediction
- Developed a model to predict hotel booking cancellations, aiding in the development of profitable cancellation and refund policies.
- Conducted univariate and bivariate analysis to identify key factors influencing booking cancellations.
- Built four classification models: Logistic Regression, Support Vector Machine, Decision Trees, and Random Forest, with Random Forest achieving the highest accuracy score of 90%.

OTHER

Certifications: WorldQuant University - Applied Data Science Lab (2024)

Volunteering: Zindi – Data Science Volunteer, This is me community - Volunteer

Languages: English and Kiswahili