

# Sharon Muiruri

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## EDUCATION

### Massachusetts Institute of Technology

2022 - 2023

*Data Science and Machine Learning Certificate*

### Jomo Kenyatta University of Agriculture and Technology

2018 - 2022

*Bachelor of Business Information Technology*

## SKILLS

**Programming:** Python, SQL

**AI & Machine Learning:** Regression, Classification, Clustering, NLP, Computer Vision, Neural Networks, LLMs

**Tools & Frameworks:** Scikit-learn, TensorFlow, PyTorch, Keras, Crew AI, Langchain, FastAPI

**Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn, Plotly

**DevOps & Cloud:** Docker, Kubernetes, Microsoft Azure

**Soft Skills:** Analytical mindset, teamwork, time management, and attention to detail

## EXPERIENCE

### Machine Learning Contributor

Nov 2024 - Present

*Omdena*

- Collaborate with a diverse global community of over 30 data scientists, data engineers, and researchers to address real-world challenges using machine learning and AI techniques.
- Actively participate in open-source projects aimed at solving complex problems spanning various domains, such as finance, healthcare, and environmental conservation.
- Researched and developed appropriate ML algorithms and AI applications according to user requirements.

### Machine Learning Intern

Sep 2024 - Oct 2024

*Codsoft*

- Built and deployed a customer churn prediction model, improving retention rates by 20%.
- Optimized a fraud detection model by enhancing precision and recall by 18% through feature engineering and hyperparameter tuning.
- Created interactive dashboards and reports using Tableau, improving business decision-making.
- Collaborated with cross-functional teams to integrate machine learning models into production environments, ensuring seamless deployment and monitoring

### Receptionist

April 2023 - Aug 2024

*Zizu Investments Limited*

- Assisted clients and prospective clients by providing detailed information about products and services offered.
- Prepared lease agreements, tender documents, and company profile documents with 100% accuracy and compliance.
- Managed employee leave applications using the Wingubox system, streamlining HR processes.
- Compiled monthly muster roll reports, effectively tracking employee attendance and maintaining up-to-date records.
- Addressed and resolved client and employee queries and complaints efficiently through phone, email, and general correspondence.

### Data Science and MLOps Intern

Sep 2022 - Dec 2022

*Flapmax AI Institute*

- Customized a SaaS accelerator on Microsoft Azure, enhancing system scalability by 15%.
- Deployed FastAPI applications using Kubernetes and Docker, improving orchestration efficiency by 30%.
- Collaborated with cross-functional teams to develop a car damage detection model using Mask R-CNN, achieving a 90% accuracy rate and reducing processing time by 25%.
- Delivered visual presentations and reports using Powerpoint to non technical teams, enhancing decision-making efficiency by 20%.

## PROJECTS

### Stock Market Prediction

- Developed a time-series forecasting model for three companies using ARIMA, SARIMA, and LSTM, with LSTM achieving the best performance.
- Conducted exploratory data analysis on 10,000+ stock price records using yfinance API, identifying key trends and volatility patterns.

#### **Credit Card Default Prediction**

- Created a predictive model to identify customers likely to default on payments, achieving a high ROC AUC score using Random Forest.
- Conducted feature engineering and used SMOTE for dataset balancing, improving model fairness and accuracy.

#### **OTHER**

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***Certifications:*** Applied Data Science Lab - WorldQuant University.