

# Elsy Kimaka

Highly motivated, Innovative and Results-oriented web developer and data scientist. I have experience in creating responsive websites. I'm also proficient in data analysis and machine learning using Python.

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## EDUCATION

**Zetech University, Kenya** — *Bachelor of Science in Information Technology*

JAN 2021 - DEC 2023

## PROJECTS

### portfolio website

- Designed and developed a personal portfolio website showcasing my frontend web development skills.
- Utilized HTML, CSS, Bootstrap and JavaScript to create a responsive and visually appealing interface.
- Demonstrated proficiency in presenting personal projects and achievements effectively.

### Smart Farm Optimal Crop Recommender

- Spearheaded the development of an intelligent crop recommender system for precision agriculture.
- Trained a Random Forest model on Kaggle's "crop\_recommendation" dataset.
- Utilized Pickle library to load and utilize the serialized Random Forest model efficiently.
- Leveraged Flask and Pickle for backend and React for frontend user interface.
- Seamlessly integrated machine learning capabilities using Flask and Pickle with an interactive web application to assist farmers in making informed planting decisions.

### Market Basket Analysis using Apriori Algorithm

- Conducted a comprehensive market basket analysis on a retail dataset using the Apriori algorithm.
- Implemented data preprocessing and rule mining to identify associations between products.
- Extracted meaningful insights to optimize product placement and boost sales.

### Visualizing COVID-19 Affected Areas on the World Map

- Developed a data visualization project to display COVID-19 affected areas

## SKILLS

### Programming Languages

Python, JavaScript, HTML, CSS, SQL

### Web Development

React, Bootstrap, Node.js, Express, RESTful APIs

### Data Analysis

Pandas, NumPy, Matplotlib, Seaborn, Excel

### Machine Learning

Scikit-learn

### Database Management

MySQL

### Version Control

Git, GitHub

### Data Visualization

Tableau, Power BI

### Problem-Solving and Critical Thinking

### Strong Analytical Abilities

### Attention to Detail

### Teamwork and Communication

## TRAININGS AND CERTIFICATIONS

### Machine Learning Certification Course for Beginners (2023)

Online Course-Analytics Vidhya

worldwide.

- Employed K-means clustering to group regions based on geographical proximity and the number of COVID-19 cases and deaths.
- Created an interactive world map using Folium library, where each region is represented by a CircleMarker, reflecting the COVID-19 data for that area.

## **VOLUNTEER EXPERIENCE**

### **Google Developer Student Clubs (GDSC)-Zetech University, Co-Lead and UI/UX Lead, September 2022 - July 2023**

- Organized meetups at GDSC-Zetech University.
- Presented on web development topics at GDSC-Zetech University events, educating my fellow students on web development.
- Partnered with UI/UX leads from other universities to organize joint events and to share resources, expanding the reach of GDSC-Zetech University and providing students with more opportunities to learn and grow.

### **3-week Bootcamp training in Data Analysis (2023)**

Women Techsters Initiative

### **3-week Bootcamp training in Software Development (2022)**

Women Techsters Initiative

## **LANGUAGES**

Swahili, English