

J O Y M A K E N A

Nairobi, Kenya | kenamuigai@gmail.com | +254797583854

OBJECTIVE

Perceptive individual and data and machine learning enthusiast. Proven experience in designing and implementing scalable web services, robust database systems as well as training machine learning models. Aspiring to leverage academic knowledge and internship experience in a challenging full stack data scientist role.

EDUCATION

BSc. Informatics & Computer Science

Strathmore University, Ole Sangale Campus.

Nairobi, Kenya, July 2023

Certificate, Machine Learning

Brno University of Technology.

Brno, Czech Republic, July 2022

WORK EXPERIENCE

Python/Django Backend Developer Intern

Emmerce Limited

March 2023 – June 2023, Nairobi, Kenya

- Leveraged Django's framework to architect, build & maintain scalable backend services.
- Constructed robust and efficient database models to facilitate data handling using Django ORM.
- Designed and implemented RESTful APIs and endpoints, for request handling and data transfer.
- Utilized Postman for API development, testing, and documentation, significantly improving efficiency and effectiveness of the API development process.
- Collaborated closely with frontend developers and other stakeholders to ensure the delivery of high-quality features.
- Identified and resolved bottlenecks and bugs, enhancing the overall performance of applications.

Information Technology Intern

I&M Bank Limited

Jan 2022 – April 2022 Nairobi, Kenya

- Gained proficiency in querying and manipulating large data sets for analytical purposes using SQL (OracleDB).
- Gained knowledge of the ETL pipeline and data warehousing by working closely with the data engineer to extract and sort data.
- Learned how to build simple machine-learning models using logistic regression on large data sets.
- Learned how to write well-designed, and testable code by doing daily challenges, thus learning software development best practices.
- Worked closely with the Application Development Team and Quality Assurance Engineer to become familiar with standard software engineering methodologies such as code reviewing and testing.
- Worked closely with the developer's team to find and fix bugs in the internet banking system which uses Java enterprise subsequently gaining skills in debugging and skills in Java development.
- Gained knowledge of RESTful APIs and the use of Postman for monitoring said APIs.
- Gained knowledge in Android by learning Kotlin development and Kotlin for Android.

PROJECT

Customer Segmentation using K-Means Clustering Algorithm to Improve Strategies for SMEs

- Gained skills in research and documentation including literature review.
- Applied use of python libraries such as pandas, NumPy and scikit learn.
- Gained understanding of various machine learning techniques in both supervised learning (linear and logistic regression) and unsupervised learning (K-Means clustering) and quantitative analysis using RFM (Recency, Frequency and Monetary analysis) for segmentation.
- Gained experience in Exploratory Data Analysis.
- Gained visualization skills using seaborn and matplotlib.
- Gained skills in model validation using Hopkins statistic, twin sample validation and silhouette coefficient.