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| Data Scientist/ Machine Learning Engineer  Maxwel OCHIENG’ | [maxwellmaxwels@gmail.com](mailto:maxwellmaxwels@gmail.com)  <https://www.linkedin.com/in/maxwel-ochieng-656759172/>  Nairobi, Kenya |

# Skills

* LLMs
* Python (Pandas, NumPy, SciPy, MatPlotLib ,OOP)
* Machine Learning & Deep Learning
* SQL, MySQL
* AWS, Time Series Analysis
* Microsoft Power BI and Tableau
* R , SPSS
* Feature Engineering , EDA
* Hyper Parameter tuning

# Projects

Chatbot for Interview Preparation– Omdena Project

* Collaborated with a team to leverage Large Language Models (LLM) in developing an innovative Chatbot for interview preparation.
* Engineered question generation and response validation using OpenAI, Google Palm and Cohere APIs

**CREDIT CARD ANOMALY DETECTION** –

* I implement three algorithms for anomaly detection; Isolation forest, Local Outlier Factor and SVM
* Isolation forest gave the best accuracy (99.74) of all the three algorithms hence best for anomaly detection in this project

**FAKE NEWS CLASSIFIER** – POC Project

* I used NLP techniques like stemming & removal of stop words to preprocess the dataset for classification.
* Implemented TFIDF and Count Vectorizer then applied multinomialNB & Passive aggressive algorithm to classify the given news

Customer Sales Analysis DASHBOARD – Personal Project

* Utilized **Power BI** to create customer analysis dashboard
* Transformed and processed data by using DAX and Excel to ensure data completeness and validity

# Work Experience

OMDENA –India Chapter - **ML Engineer** November 2023 - Date

* Leveraged NLP's LLM in building chatbot for Interview Preparation (HR round).
* Implemented the interview question generation and question validation functionality

**SENDY KENYA LTD – ML Engineer** June 2021 – October 2023

* Implemented a POC customer service chatbot feature which eased customer service by 50%
* Collaborated with the engineering team in handling various projects through; Feature Engineering, Hyper Parameter tuning and EDA
* Implemented Power BI dashboards for the order deliveries, sales amounts and customers
* Automated the use of google sheets to ensure efficiency

**VOICES AFRICA – DATA ANALYST** April 2019 – May 2020

Utilized Microsoft SPSS statistical software to track and analyze data.

Designed and built statistical analysis models on large data sets using R.

Successfully interpreted data to identify key metrics and draw conclusions.

# Education

BSC. MATHEMATICS AND COMPUTER SCIENCE – JKUAT – Kenya November 2018

Majors: Statistics and Computer Science