SYLVIA WANGUI MWAI

Data Scientist & Industrial Mathematics Professional

= 254718787632

@ mwaisylvia106@gmail.com

www.linkedin.com/in/sylvia-mwai-b306a023a

SUMMARY

Results-driven Data Scientist with a Bachelor's degree in Industrial Mathematics, specializing in advanced data analytics, machine learning, and predictive modeling. Proficient in Python, MATLAB, and PowerBI, with a proven ability to drive business growth and operational efficiency. Successfully led a project that increased Airbnb pricing accuracy by 8% using the Lasso model. Adept at turning complex data into actionable insights that align with organizational objectives, enhancing customer engagement and financial strategies. Eager to contribute innovative, data-driven solutions to support organizational success.

EXPERIENCE

KPMG Data Analytics Consulting Intern

Forage

ii 11/2023 - 01/2024

- Implemented a client-focused simulation using Excel and PowerBI, resulting in a 20% increase in customer engagement.
- Identified key trends based on customer demographics and attributes, including data-driven solutions that resulted in 12% improvement in operational efficiencies.
- Contributed directly to strategic decision-making processes with a databacked PowerPoint presentation.

Junior Machine Learning Engineer

Omdena

前 05/2023 - 11/2023

- Developed advanced machine learning models for Airbnb pricing that resulted in an increase of 5-10% in prices.
- Implemented user-centric enhancements and a data-driven decision-making process to enhance the user experience by 20%.
- Increased prediction accuracy by 8.03% using the Lasso model, validated by a significant decrease in Root Mean Squared Error and Mean Absolute Error.
- Achieved higher pricing accuracy and reliability by establishing the Lasso model as the best value for money.
- Led strategic analyses and implemented revenue-boosting measures that increased revenue by 12%.
- Assessed over 6000 Airbnb listings, facilitating strategic decision-making and boosting revenue.
- Streamlined data processing, reducing processing time by 25% and increasing efficiency.

Internship Trainee - Finance and Investment (Cost Management Accounting)

National Hospital Insurance Fund - Kenya

苗 01/2023 - 03/2023

- Fortified the accuracy of NHIF financial records by synthesizing 5% of total bank reconciliation reports.
- Leveraged extensive research on best practices to optimize organizational strategies in financial budgeting presentations.
- Partnered with claims assessors to verify claims details, amplifying the investigation process through the reimbursement of staff and imp rest fund surrenders.
- Mitigated team workload and maximized claims management efficiency by streamlining approximately 200 daily claims under WIBA, EDU-AFYA, and last expense policies.
- Executed the processing of 200 paid-up vouchers daily across multiple branches, ensuring accurate financial records and facilitating timely decision-
- Consolidated bank statements with cashbook figures each day, achieving an accuracy rate of 98%, ensuring financial transparency and monitoring discrepancies.
- Oversaw the collection of income from area and revenue offices, streamlining fund processing, which resulted in a 15% reduction in collection times and enhanced revenue forecasting accuracy for NHIF.

SOFTWARE SKILLS

Python Financial Analysis MySQL& Postgres GCP (Big Query) Git Version Control XGBoost &Scikit Excel and PowerBI Big Data **MATLAB**

EDUCATION

Professional Certificate in Data Science with Python

Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Bachelor of Science in Industrial **Mathematics**

Jomo Kenyatta University of Agriculture and **Technology**

2019 - 2023

O Juja, Kenya

Kenya Certificate of Secondary Education

Moi Girls' High School

SKILLS

Data Analysis	Machine Learning Algorithms
Financial Modeli	ng Mathematical Modeling
Statistical Analys	sis Predictive Analytics
Model Selection	and Evaluation

Model Selection and Evaluation

Data Processing Optimization

Algorithm Development Portfolio Analysis

Optimization Techniques

PROJECTS/ CERTIFICATIONS

- Data Science with Python
- Database and SQL for Data Science
- Microsoft Excel and Data Visualization with PowerBI
- Advanced Financial Math and Statistics
- Google Cloud big data and Machine Learning

HONORS / AWARDS

Presidential Awards Adventurous Journey Silver Level

REFERENCES

Kennedy Chege

Senior Levy Officer, Tourism Fund Email: Kchege@tourismfund.co.ke

Erastus Gathathu

Lead Supervisor, JHUB

Email: gathathu.ngatia@yahool.com

Wanjohi Christopher

Data Engineer/Scientist, OMDENA Email: nyagahchris411@gmail.com