

IAN MURIMI

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DATA SCIENTIST

I'm a dynamic highly skilled and results-oriented aspiring data scientist with experience in leveraging data-driven insights to drive business solutions. I focus at employing advanced statistical modeling, machine learning, and data visualization techniques to extract meaningful patterns and trends. I have a proven track record in solving complex business challenges and contributing to data-driven decision-making processes. I've Strong problem-solving skills and ability to work collaboratively in cross-functional teams to deliver high-quality solutions.

STRENGTHS AND EXPERTISE

Data Analysis & Interpretation
Statistical Modeling
Machine Learning
Deep Learning
Predictive Analytics

Python
Data Visualization
Big Data Technologies
Data Warehousing

Automation Tools (e.g.,
scripting, orchestration)
Feature Engineering
A/B Testing
Team Leadership

PROFESSIONAL EXPERIENCE

Junior Data Scientist - Data Science & Data Analysis
Nairobi Women Hospital

May 2022 - August 2023

Accomplishments:

- Conducted statistical analyses on customer satisfaction surveys, uncovering areas for improvement in service delivery
- Assisted in the development of predictive models for resource allocation, optimizing project timelines by 15%.
- Carried out exploratory data analysis (EDA) and informed stakeholders who weren't technical of the results.
- Worked in conjunction with cross-functional teams to determine business needs and convert them into insights that can be put to use.
- Putting data-driven initiatives into practice to improve business outcomes and maximize key performance indicators (KPIs).
- Improved applications performance by consistently testing and refining software prior to rollout
- Created interactive data visualizations to communicate findings to executive leadership.
- Collaborated with business analysts to understand data requirements and translate them into actionable insights.
- Conducted A/B tests to evaluate the effectiveness of new product features, providing actionable insights for product optimization.
- Increased team efficiency by 10% by developing and configuring internal applications

EDUCATION

Masinde Muliro University of Science and Technology

Bachelor of Science in Computer Science
Second Class Upper Division

2020 - 2024

Ikuu Boys High School

Kenya Certificate of Secondary Education
Mean Grade: B+

2016-2019

ACHIEVEMENTS

Developed and Deployed Predictive Models for Improved Business Forecasting Accuracy

- Successfully developed and deployed predictive models for customer churn, resulting in a reduction in customer attrition.
- Involved in a project to enhance sales forecasting accuracy by implementing advanced statistical techniques, resulting in a improvement in forecasting precision.
- Created interactive data visualizations and dashboards using Tableau, improving data communication and facilitating data-driven decision-making for executive leadership.
- Identified cost-saving opportunities through data analysis of operational processes, leading to a reduction in operational expenses.
- Conducted A/B tests to evaluate new product features, providing actionable insights for product optimization and improving user engagement.

Efficiency through Automation:

- Led the integration of automated tools for compliance reporting, streamlining the reporting process and reducing reporting time by an impressive 30%.
- Implemented innovative solutions to enhance efficiency in monitoring and reporting, contributing to the organization's overall cybersecurity resilience.

Cross-functional Collaboration:

- Fostered strong collaboration with cross-functional teams, playing a key role in driving the adoption of advanced cloud security solutions.
- Worked closely with Cybersecurity Intelligence and Security Operations Centre (CiSOC) to align cloud security measures with emerging threats and industry trends.

Community Development

- Designed and implemented a structured training program for Microsoft Office Suite, with a focus on Excel, Word and Access, catering to diverse skill levels of students at the local college(East Technical College).
- Empowered students with practical skills in spreadsheet management, data analysis, databases and document creation using Excel, Access and Word enhancing their proficiency and employability in the digital workplace.

CEO and Top Author At Tech With Snake Byte

- YouTube Channel where I share Ideas on how to improve the world by creating amazing software projects: youtube.com/@TechWithSnakeByte

PROJECTS

CUSTOMER SEGMENTATION USING K-MEANS CLUSTERING

- Identified unique client groups by doing segmentation analysis on customer data.
- Divided up the client base according to their purchase habits using the K-Means clustering technique.
- Developed a model capable of giving useful information for focused marketing campaigns.

PREDICTIVE MAINTENANCE FOR INDUSTRIAL EQUIPMENT

- Created a predictive maintenance model to anticipate equipment malfunctions before they happen.
- Model was capable of reducing downtime and maintenance expenses incurred thanks to proactive maintenance measures.

STOCKS TREND PREDICTION APP

- A Neural Network Deep Learning LSTM model trained with historical data of various stocks.
 - Capable of predicting Stocks prices with up to 90% accuracy
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TECHNICAL SKILLS

- Programming: Python (NumPy, Pandas, Scikit-learn)
- Big Data Technologies: Hadoop, Spark
- Machine Learning: Regression, Classification, Clustering, Neural Networks
- Data Visualization: Matplotlib, Seaborn, Tableau
- Statistical Analysis: Hypothesis testing, A/B testing
- Database: MySQL, Oracle, Mongo Db, Postgress, Maria Db
- Tools: Jupyter Notebooks, Google Colab
- Version Control: Git and GitHub
- Other Programming Languages (C++, C# and Java)
- Linux Administration

PROFESSIONAL CERTIFICATIONS

- **Machine Learning and AI using Tensor Flow** - Google Cloud -2024
- **Building of Recommendations Systems** - Great Learning Academy - 2024
- **Oracle SQL** - Great Learning Academy - 2024
- **Python for Data Science** - Great Learning Academy - 2023
- **Machine Learning** - Great Learning Academy - 2023
- **Neural Networks** - Great Learning Academy - 2024
- **Google Digital Skills** - Google - 2021

PROFESSIONAL MEMBERSHIPS

- International Machine Learning Society (IMLS)
- Royal Statistical Society (RSS) - Data Science Section
- IEEE Computational Intelligence Society (CIS)

REFERENCES

- Raphael Kariuki - I.S Meru
raphael.mungai@nwch.co.ke
- Dean Sci - mmsust student
deansci@mmust.ac.ke
- github.com/Frost-Codes

CONTACTS

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