Joseph Maina

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Professional Summary

Aid organizations make data-driven decisions by transforming raw data into actionable insights through dashboards, predictive models, and scalable data solutions. With a strong foundation in both data analytics and data science, I use tools like Python, SQL, Power BI, and Excel to analyze trends, optimize performance, and communicate findings clearly to stakeholders. My exposure to full-stack technologies like React and Node.js also enables me to build and deploy web-based tools that make data more accessible and interactive across teams.

Experience

Data Analyst Associate Intern

Excelerate | 2024 – Present

- Designed and developed interactive dashboards using Google Data Studio, enabling real-time insights for executive decision-making.
- Collaborated with a global team to identify key performance indicators, improving cross-functional reporting accuracy by 25%.
- Translated raw datasets into compelling visual stories, enhancing stakeholder understanding and engagement.
- Conducted exploratory data analysis (EDA) to uncover trends, resulting in strategic recommendations adopted by leadership.
- Improved data visualization efficiency by standardizing templates and visual best practices, reducing turnaround time by 30%.

Full-Stack Developer Intern

Gertrude's Hospital | 2024 – 2025

- Built responsive web applications using React, Node.js, and MongoDB, improving patient service access by 40%.
- Collaborated with cross-functional teams to integrate front-end features with backend APIs, reducing system errors by 20%.
- Developed a secure authentication system, enhancing patient data privacy and system reliability.

- Optimized database queries and indexing strategies, improving app performance and load time by 35%.
- Led weekly code reviews and testing cycles, ensuring consistent quality and maintainability of the codebase.

Data Analyst & Scientist Student

KCA University | 2022 – 2025

- Conducted data wrangling and preprocessing tasks using Python and SQL to prepare datasets for analysis projects.
- Designed and implemented machine learning models for predictive analytics, achieving over 85% model accuracy in class projects.
- Utilized tools like Excel, Power BI, and Python to visualize complex data trends and present findings to faculty and peers.
- Collaborated on team projects to solve real-world data problems, gaining hands-on experience in hypothesis testing and A/B analysis.
- Created interactive reports and dashboards to support academic research and student-led initiatives.

Education

Bachelor of Science in Information Security

KCA University | 2022 – 2025.

Diploma in Computer Science

Zetech University | 2019 – 2021.

Technical Skills

- Languages & Tools: Python, SQL, JavaScript, HTML/CSS, R, Git, Bash.
- Libraries & Frameworks: React, Node.js, Pandas, NumPy, Scikit-learn, Express.
- Data & Visualization: Power BI, Google Data Studio, Tableau, Excel, Matplotlib, Seaborn.
- Databases: MongoDB, MySQL, PostgreSQL.

Certifications

- Data Analytics Professional Certificate
- Data Science Professional Certificate
- Machine Learning Professional Certificate

Projects

Bike Sales Excel Dashboard | [Link]

- Designed an interactive Excel dashboard to analyze customer demographics, regional trends, and sales performance.
- Streamlined data cleaning and used pivot tables and slicers for segmentation and drill-down analysis.
- Provided business insights that helped optimize marketing strategies and inventory distribution.

Data Professional Survey – Power BI Analysis | [Link]

- Visualized trends in salary, job satisfaction, and tools used among global data professionals.
- Developed a dynamic Power BI dashboard, enabling stakeholders to slice data by region, title, and experience level.
- Identified correlations between learning methods and salary growth to inform upskilling strategies.

Health Analytics Project – SQL, BI & Excel | [Link]

- Used advanced SQL queries to extract and analyze hospital data on patient visits, conditions, and outcomes.
- Designed Excel and Power BI dashboards to support hospital leadership in decision-making.
- Uncovered seasonal trends in patient intake and recommended changes in staffing allocation.
- Improved reporting efficiency and informed resource planning at a departmental level.

Loan Approval & Financial Risk Analysis | [Link]

- Built a classification model in Python to predict loan approval likelihood with over 90% accuracy.
- Conducted EDA, feature engineering, and model evaluation using libraries like Pandas, Scikit-learn, and Matplotlib.
- Demonstrated how machine learning can reduce approval delays and improve financial risk assessment.

Referees

Uri Gakuru – Cloud Engineer, Gertrude's' Hospital
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Erick Nderitu – IT Manager, Windsor Gulf and Country Club
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