

Joseph Maina

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Professional Summary

Detail-oriented Data Analyst, Scientist and Full-Stack Developer Intern with a strong foundation in data visualization, web development, and statistical analysis. Skilled in translating complex datasets into meaningful insights using tools like Google Colab, Python, SQL, React, and Power BI. Passionate about data-driven decision-making and building scalable digital solutions to drive innovation and efficiency.

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

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 Analysis with Python
- Data Analytics Bootcamp Certificate
- Google Analytics Certificate
- SQL for Data Analysis
- Python 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](#)

- Extracted insights on patient visits, health conditions, and treatment outcomes using advanced SQL queries.
- Created performance reports and dashboards in Excel and Power BI to support hospital management decisions.
- Detected seasonal trends in patient intake and proposed resourcing adjustments to improve care delivery.

Loan Approval & Financial Risk Analysis | [Link](#)

- Built a machine learning model to predict loan approvals with over 90% accuracy using Python.
- Performed exploratory data analysis and feature engineering to optimize model performance.
- Enabled faster and more data-driven credit decision-making by integrating classification results into risk workflows.

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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