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](https://github.com/Joseph89155/Bike-Sales-Excel-Project)

* 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](https://github.com/Joseph89155/Data-Professional-Survey-Power-BI-Analysis-Project)

* 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](https://github.com/Joseph89155/Health-Analytics-Project-SQL-BI-Excel-)

* 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](https://github.com/Joseph89155/Loan-Approval-Financial-Risk-Analysis-Python)

* 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**Email: ugakuru@gerties.org | Phone: (+254) 722540778

**Erick Nderitu – IT Manager, Windsor Gulf and Country Club**Email: nderituerick79@gmail.com | Phone: (+254) 712190468