JOSEPH MAINA

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GitHub: https://github.com/Joseph89155

Portfolio: https://joe-analyst.vercel.app

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.

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.

WORK EXPERIENCE:

Excelerate **2024 - Present**

Data Analyst Associate.

Data Analyst Associate Intern at Excelerate.

- 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%.

Gertrude's Children's Hospital. **2024 – 2025**

Full-Stack Developer Intern.

- 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 error 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.

KCA University. **2022 – 2025**

Data Analyst & Scientist Student.

- 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
- Kenya Certificate of Secondary Education (KCSE) | Bavuni Secondary School, Kenya | 2015 - 2018.

Certifications

- Data Analytics Professional Certificate.
- Data Science Professional Certificate.
- Machine Learning Professional Certificate.
- Python Programming Professional Certificate.
- SQL Professional Certificate.

PROJECTS

Credit Card Fraud Detection – Scikit-learn, Snap ML, SMOTE| Link

- Developed fraud detection models using Decision Tree and SVM to identify suspicious credit card transactions in imbalanced datasets.
- Applied SMOTE for class balancing and conducted extensive EDA to uncover transaction patterns and risk indicators.
- Evaluated model performance using recall, precision, F1-score, and AUC, prioritizing high-recall results to minimize undetected fraud.
- Demonstrated how machine learning can enhance financial security and reduce monetary losses by identifying fraudulent behavior in real time.

COVID-19 Forecasting and Geo-Visualization – Python, Jupyter Notebook, Plotly| Link

- Conducted large-scale data cleaning and preprocessing to prepare global COVID-19 datasets for analysis and modeling.
- Built a linear regression model to forecast the spread of COVID-19, aiding in anticipatory healthcare planning.
- Created interactive geospatial visualizations using Plotly to map infection trends, enabling better public awareness and policy response.
- Showcased how data science tools can support crisis response, early warning systems, and global health communication.

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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