

DAVID ODHIAMBO OWINO

Data Analyst

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Summary

Math teacher and director of studies transitioning into a data analyst role after completing an Associate Data Analyst in SQL and Python certificate. Diverse experience wrangling data, reporting, and effective curriculum delivery, improving students' annual test scores and university transition rate by ~45%. Over 6 years of experience monitoring and validating database users, analyzing students' data, and ensuring 99% uninterrupted operations. Core skills include exploring data and providing actionable insights for rational decision-making, modeling, and statistics.

Projects

Python | EDA and Visualization www.github.com/daviedavie100/pisa2012_data_analysis

- Created and executed Question-Visualization-Observation EDA framework strategy for interpreting data to generate 20% more insights and visuals utilizing NumPy, Pandas, Matplotlib, and Seaborn libraries.
- Conducted a rigorous Explanatory Data Analysis, creating 22 insightful visualizations in a comprehensive Jupyter Notebook Slide Deck and disseminating key data analytics to a cross-functional training team.
- Assessed and analyzed a large dataset of 510,000+ observations and 636 features, comprehending the structure, oddities and patterns, isolating and rectifying 30+ anomalies to optimize data quality and reports.

SQL | Data Wrangling and Analysis www.github.com/daviedavie100/data_wrangling

- Collected, stored and processed 5000+ retweets and favorite counts data from WeRateDogs on X using Twitter API, and identify trends and patterns crucial for social media engagement.
- Systemized an efficient data extraction process using the Sqlite3 and Requests libraries to pull and organize a complex soccer SQL database with seven tables, 199 columns and 200,000+ rows from Kaggle.

Experience and Achievements

Director of Studies | Kombeni High School

Apr 2017–Present

- Developed and optimized a real-time Microsoft Excel performance analyzer for ~1,100 students in 14 subjects, improving the efficiency of report production by 80%.
- Spearheaded the transformation of departmental physical documentation systems into digital format, reducing information retrieval time by an impressive 90%, boosting operational efficiency and productivity.
- Designed and critically deployed a real-time dashboard for remedial management in Microsoft Access, achieving 99% accuracy in data entry by paying attention to database query performance.
- Restructured the school routine and academic programs, conducted workshops for parents and tracked students' learning processes, improving student performance and key stakeholders' engagement by 22%.

Math teacher | Kombeni High School

Mar 2012–Present

- Train and coordinate 45 internal staff on data management, reporting systems, and administrative needs to maximize efficiency, productivity and compliance.
- Led a team of six heads of departments to develop and implement a 5-year strategic plan that resulted in the attainment of the highest mean score in the 2019 national exams.

KPMG AU Data Analytics Job Simulation on Forage

May 2024

- Completed a comprehensive simulation focused on advising a client based on demographic data, developed a 96% accurate predictive model to identify high-value customers, enhancing acquisition strategies.
- Built interactive Microsoft Power BI dashboards to communicate Bikes' sales trends and customer behavior with visuals, enabled a 20% boost in targeted marketing efforts on new customers.

Education

Data Analyst Nanodegree, Online | confirm.udacity.com/KUPXXDDD

Nov 2022

Programming Essentials in Python | Cisco Networking Academy®

Apr 2022

Bachelor's degree in Education Science, Major in Statistics | Kenyatta University

Dec 2010

Skills

Programming: Python (advanced), Relational Database - PostgreSQL (advanced), R (knowledgeable)

Certifications & Training: Associate Data Analyst in SQL, Data Analysis with Python Certification.

Technical Skills: BigQuery, Looker Studio, Data Collection, Data Engineering, Database Management System.