Yusuf Kiwanuka

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SUMMARY

Statistics graduate with hands-on experience in data engineering and machine learning. Skilled in data cleaning, transformation, and pipeline development, as well as statistical modeling and predictive analytics

TECHNICAL SKILLS

- **Programming & Tools**: R, SQL, NoSQL, AWS, Tableau, MongoDB, Python, Docker (SciKit-Learn, TensorFlow, PyTorch)
- **Relevant projects**: Life_Expectancy, Bankruptcy-Prediction, Ebola Tracking using Twitter, NLP analysis of YouTube
- **Relevant Classes:** Data mining and modelling, Mixed models, Time series, Advanced Statistical Methods, Bayesian

EDUCATION

San Diego State University   **2024 - Present**
Masters of Statistics ~ GPA 3.9

Makerere University   **2013 - 2017**
Bachelor's Degree in Statistics

WORK EXPERIENCE

San Diego State University   **Jan 2025 - Present**
Graduate Research and Teaching Assistant

- Delivered instructional support on statistical methods and data analysis techniques using R, reinforcing concepts such as regression, hypothesis testing, and data visualization to enhance students' analytical skills relevant to data-driven decision-making.
- Conducted one-on-one tutoring sessions and maintained regular office hours to assist students with complex statistical concepts
- Conducted research on Small Area Estimation (SAE) within survey statistics, focusing on improving model performance through developing new clustering methods that significantly reduced model run-time and enhanced efficiency which achieved lower RMSE compared to traditional SAE models, demonstrating improved predictive accuracy

Engie Energy Access   **Jul 2023 - Jul 2024**
Operations Analyst

- Developed predictive models of sales data by leveraging statistical methods, uncovering trends and seasonality in client repayments and contributing to a 34% monthly sales increase.
- Optimized call center resource allocation by analyzing key metrics, which enhanced daily productivity by approximately 25%.
- Automated daily reporting processes using Google APIs and ETL techniques, integrating productionized code with the Tableau REST API to refresh reports every 2 hours, thereby doubling the reporting frequency.
- Streamlined product supply chain analysis in collaboration with the country operations team, improving operational efficiency by reducing overstocking.
- Engineered cost-benefit analysis models for service centers, evaluating revenue metrics per agent versus operational costs and achieving a 36% increase in revenue generation.

Platinum Credit Limited   **Jan 2020 - Jun 2023**
Business Analyst

- Implemented strategies to meet portfolio performance targets through multivariate market analysis, resulting in an 85% increase in the SME portfolio at the start of 2023.
- Conducted monthly revenue and performance projections that accounted for seasonality and economic shifts, informing business strategy.
- Identified policy and risk gaps by analyzing current lending practices, reducing bad debt by 0.3% of the portfolio through targeted improvements.
- Cultivated stakeholder relationships to effectively communicate product reports using clear visualizations and data-driven insights.

Platinum Credit Limited   **Sep 2018 - Dec 2019**
Data Analyst

- Analyzed daily loan collections to identify trends in customer deposits, arrears, and portfolio performance, contributing to a reduction in bad debt.
- Collaborated with Credit and Finance teams to enhance compliance measures, reduce fraud, and implement robust data cleaning and control procedures.
- Prepared comprehensive daily, quarterly, and monthly reports that informed management decision-making and supported targeted planning based on sales trends.
- Addressed Sales team complaints directly with Office Administrators, optimizing internal processes and improving overall customer service efficiency.