

Josiah Nyongesa

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Education

Master of Science, Mathematics with Data Analytics Certificate

Youngstown State University, OH | Aug 2021 – Aug 2023

Relevant Coursework: Time Series Analysis, Econometrics, Data Mining, Statistical Modeling, Database Systems, Optimization, Operations Research

- Focused on applying advanced probability, machine learning, and time series methods to real-world decision-making problems
- Developed multiple research projects involving predictive modeling, optimization, and data-driven analysis

Professional Experience

Manager I, Operations – Amazon

El Paso, TX | Sep 2023 – Present

- Developed QuickSight BI report to track P2R CPT misses, analyzed root causes, and implemented action plans, improving on-time delivery performance.
- Collaborated with team members to achieve record-breaking TPH (units processed per hour) in the fulfillment center, driving exceptional operational efficiency and productivity.
- Proposed a Pick to Rebin Wall Adjacency Project to optimize packer allocation and improve warehouse efficiency through intelligent automation.
- Mentored an L3 Process Assistant, supporting their promotion to L4 through guided project ownership and problem-solving.

Logistics Payments and Data Analyst – One Acre Fund

Kakamega, Kenya | Jan 2018 – Aug 2020

- Built time series forecasting models to support seasonal budget planning and resource optimization.
- Designed and implemented automated trackers for invoice validation, improving payment accuracy and reducing delays.
- Conducted root-cause analysis and built SQL-based reporting tools to improve financial accountability in logistics.

Data Science Projects

SpaceX Launch Success Prediction | IBM Data Science Capstone

Python, R, Plotly Dash

- Developed machine learning models (Random Forest, Logistic Regression) to predict SpaceX Falcon 9 first stage landing outcomes.
- Created a dynamic dashboard for visualizing model predictions, supporting real-time data exploration and model performance tracking.
- Integrated statistical techniques and algorithmic thinking to drive decision support for aerospace operations.

Titanic Survival Prediction – Binary Classification Model

Python, Scikit-learn, Pandas

- Conducted in-depth statistical analysis and applied classification algorithms (Random Forest, Gradient Boosting) on survival data.
- Performed feature engineering and selection to improve predictive power of survival models.
- Translated modeling output into actionable insights through probability estimation and ROC curve evaluation.

Deep Roots Self Care Co. – Supply Chain Optimization

R, Power BI, Python, Google Sheets

- Built a time-series based demand forecasting model to optimize production cycles and inventory levels.
- Developed an optimization algorithm to minimize delivery route costs, leading to measurable improvements in delivery times.
- Modeled customer demand volatility and integrated forecasting into operational decision-making.

Technical Skills

- **Programming:** Python, R, SQL, HTML, CSS, JavaScript
- **Modeling:** Machine Learning, Time Series Forecasting, Predictive Analytics
- **Tools:** Scikit-learn, Tableau, Plotly Dash, Excel/VBA, Quicksight
- **Methods:** Statistical Inference, Feature Engineering, Optimization, Data Mining

Certifications

- IBM Data Science Professional Certificate [Certificate Link](#)
- Full Stack Web Development
- Certificate in Data Analytics – Youngstown State University