MOSES KOROMA

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EDUCATION

Wheeling Jesuit University **May 2024**
Bachelor's, Business
- Management Information Systems Concentration | Dean's List Recipient

Northwest Missouri State University **Jun 2026**
Master's, Data Analytics

EXPERIENCE

Northwest Missouri State University **Maryville, MO, USA**
Student Data Analyst *Aug 2024 - Present*
- Analyzed datasets of over 6,000 student records to identify trends in enrollment, retention, and academic performance, supporting strategic decision-making.
- Designed and implemented interactive dashboards using Tableau, Power BI, and Excel, reducing reporting time by 30% and enabling leadership to monitor 12 KPIs in real-time.
- Conducted statistical analyses and survey feedback analysis, contributing to a 10% increase in retention rates and a 20% improvement in student satisfaction scores.

Wheeling Jesuit University **Wheeling, WV, USA**
Student IT Assistant *Nov 2020 - Jan 2024*
- Manage daily help desk operations, including ticket prioritization, tracking, and prompt resolution for over 200 staff members, more than 300 faculty members, and over 3,000 students."
- Perform a thorough analysis of technical issues to identify root causes and implement solutions, resulting in a 50% reduction in response time to customer complaints and a 30% increase in overall customer satisfaction.
- Managed multiple projects simultaneously using organizational, analytical, and Excel skills.

PROJECTS

NBA AI Prediction System - *Link to project*
XGBoost, Machine Learning, APIs, Cloud Automation, ETL
- Developed an automated ML pipeline that ingests real-time NBA and betting odds data via APIs, engineers 20+ features, and trains an XGBoost model achieving 68% prediction accuracy.
- Deployed end-to-end solution on a Google Cloud VM, automating daily predictions, model evaluation, and performance logging.
- Designed a Streamlit dashboard to display win probabilities, odds, and model edge for 10+ daily games

NYC Traffic Crashes Analysis - *Link to project* *2024 - 2025*
Python, SQL, Pandas, Matplotlib, Seaborn, Folium
- Conducted exploratory data analysis (EDA) on NYC motor vehicle crashes to identify high-risk zones, peak crash times, and behavioral contributing factors.
- Implemented time series analysis and forecasting to analyze crash trends and provide data-driven recommendations for public safety improvements.
- Integrated traffic volume and weather data from APIs to analyze external influences on crash severity and frequency.
- Developed interactive visualizations using Python libraries (Pandas, Seaborn, Matplotlib, and Folium) to map crash hotspots and borough-specific crash trends.

University Retention & Enrollment Dashboard - *Link to project*
Power BI, Excel, DAX, Institutional Data
- Developed a Power BI dashboard for university leadership to track enrollment, retention, and satisfaction KPIs.
- Visualized KPIs by organization, leadership roles, and student class, enabling faster decision-making and reducing manual reporting time by 30%.
- Built filters, calculated measures, and Power Query transformations for an interactive and insightful experience.
- Anonymized and aggregated real student data to ensure FERPA compliance.

TECHNICAL SKILLS

Programming Languages : Python (Pandas, NumPy, Scikit-learn), SQL, R, JavaScript
Machine Learning: XGBoost, Regression, Clustering, Feature Engineering
Visualization: Tableau, Power BI, Matplotlib, Seaborn, Folium, Streamlit, Pyshiny
Tools: Google Cloud, Jupyter Notebook, GitHub, Excel, APIs