MONICAH MWANZIA

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OBJECTIVE

Data Scientist with a strong background in data analysis, predictive modeling, and data visualization. Experienced in Python, SQL, and Power BI, with a proven ability to clean, process, and standardize large datasets. Successfully developed predictive models and dynamic dashboards to uncover insights and drive strategic decision-making. Improved data accuracy by 30% in crime analysis reports by applying machine learning techniques to detect patterns and anomalies. Proficient in building automated data validation scripts to enhance data integrity and minimize errors. Adept at collaborating with cross-functional teams to translate complex datasets into actionable insights.

Currently a PLP (Power Learn Project) Scholarship recipient, further developing expertise in AI, software development, and cloud computing, reinforcing my ability to apply technology in real-world problem-solving.

Career Goal: To leverage data science and predictive analytics in risk management, cybersecurity, and business intelligence to support organizations in making data-driven decisions.

SKILLS

- SQL
- Python
- Tableau
- Excel
- Microsoft Azure
- Data management
- Data cleaning
- Data Visualisation
- Data Analysis
- Microsoft Power BI
- Machine Learning and AI
- Google BigQuery
- Cross-functional Team Collaboration
- Natural processing language (NLP)

REFERENCE

1. Ivan Musebe, Research Analyst, Marici, email: musebeivan@gmail.com

2. Lizel Murigi , Operations Thirdway partners email Lizelmurigi@gmail.com

3. Dr. Zablon Maua, Senior Lecturer of Applied Statistics, Jaramongi Oginga Odinga Universtiy email -mauamuga@gmail.com

EDUCATION

- Limuru girl's school : Grade B
- Bachelor of Science in Actuarial science with IT - upper class division, Jaramogi Oginga Odinga University of science and technology

WORK EXPERIENCE

Individual Consultant

Data Intern   01/02/2024- 01/06/2024

Responsibilities.
- Data cleaning and removal of duplicates .
- Data Processing and Standardization.
- Category formatting and validation: Implementing validation scripts to maintain consistency across categorical fields.
- Created Python scripts to streamline repetitive cleaning tasks, boosting efficiency.
- Coordinating with team members to ensure alignment on project goals. Regularly documented and reported progress, detailing cleaning procedures and updates for supervisory review.
- Prepared and delivered a clean, structured dataset ready for use in crime analysis and policy making.

Achievements.
- Cleaned and transformed large datasets on crimes committed in Kenya, ensuring data consistency and usability for stakeholders.
- Developed scripts to automate data validation processes, ensuring compliance with predefined formatting standards.
- Enhanced the accuracy of crime analysis reports by identifying and rectifying anomalies in data sources.
- Delivered insights that supported the formulation of crime prevention strategies for clients, or government bodies.
- Reduced data processing errors by 30%, enabling efficient crime trend analysis.

OTHER CERTIFICATIONS

- Data Analysis with Python, Coursera
- Fundamentals of Visualization with Tableau, Coursera

PROJECTS

Netflix shares analysis 2023- April 2024 – Personal Project Jan 2024
- Utilized Python with **Pandas, NumPy, Matplotlib, and Scikit-learn for data analysis and visualization.**
- Conducted **time series analysis** on historical Netflix stock data to identify trends, seasonality, and price patterns.
- Employed **Linear Regression** to develop **predictive models** for Netflix share prices.
- Successfully identified key factors influencing Netflix share prices and their impact on market performance.
- The project provided valuable insights for investors and stakeholders, aiding in decision-making processes regarding Netflix shares.

Data Science Job market Eda – Personal Project August 2023
- Utilized **Python** to analyze 7000 data science job listings and gain insights on what it takes to land a job in analytics
- Implemented **Regex** techniques to comb through the job descriptions and identified the key requirements
- Aggregated and visualized the data by using **pandas, matplotlib** and **wordcloud** to compile a professional report.

Analyzing Factors Influencing Movie Success – Personal Project July 2023
- Utilized a **correlation matrix** to identify significant associations between movie attributes and success factors
- Incorporated visualizations(**heat maps**) to inform decision-making in genre selection, casting, and budget allocation.
- Uncovered key insights into factors driving movie success by identifying attributes with strong positive correlations.