Data Scientist

MBUNGAI MICHAEL B.

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Skills

- SQL (SQL Server, MySQL, PostgreSQL)
- Python (Pandas, NumPy, SciPy, MatPlotLib, seaborn)
- Jupyter Notebook
- Data manipulation
- Data Cleaning & transformation

- Data Extraction
- Microsoft Power BI
- Exploratory Data analysis (EDA)
- Microsoft Word & Excel

Projects

ALZHEIMER CLASSIFICATION – Personal Project – Uttar Pradesh, UP   January 2025

- Developed a deep learning model using a custom CNN in PyTorch to classify Alzheimer's disease stages from MRI scans with high accuracy.
- Preprocessed and augmented medical imaging data, applying transformations such as resizing, normalization, and rotation to improve model generalization.
- Trained and optimized the model using Cross Entropy Loss and Adam optimizer, achieving strong performance on validation data.
- Evaluated model effectiveness with confusion matrices and accuracy metrics, identifying areas for further enhancement through hyperparameter tuning.

CUSTOMER SEGMENTATION – Personal Project – Uttar Pradesh, UP   January 2025

- Analyzed over 500,000 customer purchasing behaviors using Python, identifying key purchasing patterns and trends.
- Built a **KMeans clustering** model to segment customers based on RFM (Recency, Frequency, Monetary) analysis.
- Aggregated and visualized the data by using **pandas, matplotlib** to compile valuable reports.

SALES DASHBOARD – Personal Project – Uttar Pradesh, UP   February 2025

- Developed an interactive **Power BI dashboard** to support strategic decision-making for stakeholders.
- Transformed and processed sales datasets by using **SQL** and **Power bi** to ensure data completeness and validity.
- Provided technical insights on how what products to focus on during seasonal sales to fully utilize the resources.
- Consult Showcased the period during high sales on the dashboard to determine the factors influencing sales.

SENTIMENT ANALYSIS ON CRYPTO – Personal Project – Uttar Pradesh, UP   December 2024

- Utilized **Jupyter notebook** to perform sentiment analysis on over 20,000 reviews of Celsius crypto currency.
- Performed **data cleaning** and text analysis to successfully identified the major complaints for Celsius currency.
- Loaded and visualized data with **Python** to view customer ratings towards the Celsius currency services with 60% positive reviews, 15% neutral and 25% negative reviews.

TRANSPORT FOR LONDON ANALYSIS – Personal Project – Uttar Pradesh, UP   January 2023

- Performed **Exploratory Data Analysis** (EDA) on transportation usage data in London using SQL.
- filtered data by using aggregating and filtering function to get the most commonly used transportation means in London.
- Analyzed data to understand the changes in transportation patterns, particularly during 2013.

Work Experience

BUSINESS INTELLIGENCE DEVELOPER INTERN – MTN Cameroon – Uttar Pradesh, UP   September 2023 - January 2024

- Developed automated reports and dashboards, reducing manual reporting time by 20% and improving real-time decision-making.
- Implemented KPI tracking and data validation processes, increasing reporting accuracy by 15%.
- Conducted data investigation to identify the cause of revenue drops, leading to a 10% improvement in revenue forecasting.
- Streamlined cross-departmental data access, enhancing collaboration efficiency by 18%.

GCE SECRETARY – GCE Board Cameroon – Buea, Cameroon   July 2023- August 2023
- Conducted data verification and validation, reducing errors in student records by 15%.
- Assisted in processing and analyzing examination data, ensuring accuracy and consistency across reports.
- Guided and supported colleagues in data entry tasks, ensuring accuracy and efficiency in workflow.

Education

MASTERS IN ANALYTICS & DATA SCIENCE – Sharda University   August 2024 – Present
Majors: Pattern recognition, Deep Learning & web, Data acquisition and mining.

BACHELOR OF SOFTWARE ENGINEERING– University Buea – Buea, Cameroon   July 2024
Majors: Database Designs, Unified Modelling Language, Database Management System, Object Oriented Programming.