DISAYIRAM NILANESAN

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SUMMARY

As a data analyst with an MSc in Big Data Analytics, I bring hands-on experience with Python, SQL, and Excel. I am passionate about transforming complex datasets into actionable insights that drive meaningful business growth. Eager to apply my analytical and visualization skills in dynamic, data-driven environments - particularly within fast-growing sectors like technology, banking & finance, insurance, or healthcare - I seek opportunities where I can make a real, data-informed impact on strategic decision-making.

EDUCATION

Master of Science in Big Data Analytics | **Distinction** | Birmingham City University | United Kingdom   2023 - 2024
Relevant Coursework: Big Data Management, Data Mining, Applied Statistics, Advanced Databases, Modern Optimisation, Web Social Media Analytics

Bachelor of Science in Computing & Information Systems | Sabaragamuwa University of Sri Lanka   2017- 2022
Relevant Coursework: Analysis of Algorithms, Object-Oriented Programming, Database Systems, Agile Software Development, Software Engineering

PROJECTS

Twitter New Year's Resolution Sentiment Analysis   02/2024 – 05/2024
- Leveraged Python's NLTK library to analyse 5,000+ tweets, extracting sentiment and identifying trending resolutions.
- Performed exploratory data analysis (EDA) to investigate engagement patterns, uncovering key user segments and geographical trends.
- Created compelling visualizations with Matplotlib and Seaborn, enabling stakeholders to quickly understand sentiment shifts over time.

Greater London's Weather Trends Analysis   09/2023 – 12/2023
- Conducted statistical time series analysis in R on 60 years of daily weather data (~21,900 records) across multiple stations in Greater London.
- Identified significant correlations (positive correlation between humidity and precipitation) to guide agricultural and energy planning.
- Highlighted the relationship between cloud cover and solar radiation, informing solar energy viability studies.

Database Design and Implementation for a Translation Web Application   09/2023 – 01/2024
- Collaborated with a team of three to design and implement a normalized PostgreSQL database schema for a language translation web application.
- Developed efficient indexing strategies and crafted optimized queries to improve data retrieval and enhance overall application performance.
- Engaged in regular team meetings to discuss project milestones, align on requirements, and troubleshoot issues, ensuring a cohesive and timely delivery.

SKILLS

- Programming Languages   : Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), R
- Database Skills   : SQL
- Data Analysis & Visualisation : Power BI, Excel
- Analytical Skills   : Statistical Analysis, Exploratory Data Analysis, Time Series Analysis
- Technical Skills   : Supervised/Unsupervised Learning, Regression, Clustering, Classification
- Soft skills   : Problem Solving, Attention to Detail, Analytical Thinking, Communication, Teamwork