DISAYIRAM NILANESAN

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SUMMARY

A results-driven Data Analyst with an MSc (Distinction) in Big Data Analytics, skilled in Excel, SQL, Python, and Power BI. Adept at transforming complex data into actionable insights to support strategic decisions and improve business performance. Experienced in cross-functional collaboration, data-driven strategy, and process optimisation. Passionate about innovation and continuous learning, I thrive in environments where data drives meaningful change.

EDUCATION

MSc Big Data Analytics November 2024
Birmingham City University, UK
Relevant coursework: Big Data Management, Data Mining, Advanced Databases, Web Social Media Analytics

BSc (Hons) Computing & Information Systems January 2022
Sabaragamuwa University of Sri Lanka
Relevant coursework: Analysis of Algorithms, Statistics, Agile Software Development, Software Engineering

CORE SKILLS

Programming Languages: Python, R, SQL
Data Analysis & Visualisation: Excel, Power BI
Other Skills: Machine Learning, CRM Systems, Git Version Control, Cloud
Soft Skills: Adaptability, Team Collaboration, Attention to Detail, Effective Communication

PROFESSIONAL EXPERIENCE

Software Engineer: Apptimus Tech (Pvt) Ltd June 2020 – Nov 2020
Collaborated on cross-functional, data-driven CRM projects across logistics, healthcare, and insurance industries. Supported strategic decision-making through operational data structuring, stakeholder analysis, and backend logic development. Gained experience working with structured data, relational databases, and user-centric reporting requirements.

- Developed a vehicle inspection system for fleet management, focusing on capturing inspection data and operational metrics across multiple vehicles to support real-time decision-making and reporting.
- Worked closely with stakeholders to gather data requirements and translate them into system logic for managing patient records, appointment scheduling, and doctor availability. Focused on clean data flow, consistent schema design, and future-ready data access for reporting needs.
- Delivered a lightweight insurance CRM to manage client appointments and interactions. Designed backend structures to support reporting and client tracking, enhancing visibility into the customer pipeline.

PROJECTS

Twitter Data Analysis

- Conducted sentiment analysis on 10,000+ tweets using NLP techniques, achieving 85% accuracy and leveraging Python's libraries to create data-driven visualisations that identified emerging consumer trends.

Gender Bias Detection & Mitigation in Large Language Models

- Developed bias detection and mitigation techniques that systematically reduced gender bias in LLM-generated occupational descriptions, achieving a 75.33% improvement across multiple professions.

Greater London's Weather Trends Analysis

- Analysed 60 years of daily weather data using R and Python, uncovering key climate change trends and presenting data visualisations to a research panel to enhance decision-making.

PUBLICATION

A Comparative Study of Classifying English News Articles Using Machine Learning Algorithms

- Published a machine learning study on English news classification, achieving 92.75% accuracy using classification algorithms. The study highlights reproducible workflows for content categorisation in editorial settings.