DISAYIRAM NILANESAN

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PROFESSIONAL PROFILE

A highly motivated and analytical Data Analyst with a MSc (Distinction) in Big Data Analytics and a proven ability to transform complex datasets into actionable insights. Passionate about fostering a collaborative and innovative company culture, I excel at leveraging technical skills, creative problem-solving, and strong communication to drive data-informed decisions. Proficient in Python, SQL, and data visualisation tools, I bring a results-driven mindset and an eagerness to align with organisational goals while contributing to a supportive team environment.

EDUCATION

Master of Science, Big Data Analytics   Sep 2023 - Nov 2024
    Birmingham City University, UK
Bachelor of Science, Computing & Information Systems   May 2017 - Jan 2022
    Sabaragamuwa University of Sri Lanka

CORE COMPETENCIES

- **Programming Languages**: Python, R
- **Data Analysis & Visualisation**: Pandas, NumPy, Matplotlib, Seaborn, ggplot2
- **Statistics & Machine Learning**: Logistic Regression, Linear Regression, Clustering (K-Means), Scikit-Learn, Random Forest, Stats Models Decision Trees
- **Database Management:** SQL (Window Functions, Data Normalisation, Optimised Queries)
- **Data Visualisation & Reporting:** Power BI (DAX, Power Query), Excel (Pivot Tables, VLOOKUP)
- **Soft Skills:** Team Collaboration, Adaptability, Problem-Solving, Attention to Detail, Effective Communication
- **Additional Expertise:** Agile Software Development, CRM Systems, Genetic Algorithm Optimisation

PROFESSIONAL EXPERIENCE

Software Engineer Intern   Jun 2020 - Nov 2020
    Apptimus Tech (Pvt) Ltd, Sri Lanka
- Developed CRM-based web modules, ensuring data accuracy and stakeholder confidence through validation and transformation.
- Reduced database query execution time by 20%, enhancing CRM system efficiency.

KEY ACHIEVEMENTS

- Optimised delivery routes using genetic algorithms, achieving a 15% reduction in delivery time and costs.
- Conducted sentiment analysis on 5,000+ tweets, identifying key trends for targeted marketing strategies.
- Delivered actionable insights from 60 years of climate data, supporting climate adaptation and renewable energy strategies.
- Designed and implemented a normalised SQL schema for a translation web application, improving data retrieval efficiency and scalability.
- Reduced gender bias in Large Language Models (LLMs) by up to 75.33%, contributing to ethical AI advancements.

PUBLICATION

Machine Learning for English News Classification
    Trends in Electrical, Electronics, Computer Engineering Conference (TEECCON)
- Published a study on machine learning applications for news categorisation, focusing on advanced algorithms for editorial workflows.

CERTIFICATIONS & TRAINING

- Completed Statistics and Data Science courses through Cognitive-Class (IBM Developer Skills Network) in May 2023, gaining foundational knowledge in descriptive statistics, probability, data analysis, data cleaning, visualisation, and basic machine learning principles.