DISAYIRAM NILANESAN

⚲ Twickenham ✉ disayiram@outlook.com in linkedin.com/in/disayiram ⌽ github.com/Disayiram

SUMMARY

Results-driven Data Analyst holding an MSc in Big Data Analytics with proficiency in Excel, SQL, Python, and Power BI. Demonstrated ability to analyse complex datasets, derive actionable insights, and effectively present findings. Passionate about leveraging data science and AI to inform strategic business decisions. Adaptable professional with strong analytical skills and eagerness to thrive in dynamic environments.

CORE SKILLS

Programming Languages: Python, R, SQL
Data Analysis & Visualisation: Excel, Power BI
Other Skills: Machine Learning, Git, Azure
Soft Skills: Communication, Analytical Thinking, Teamwork, Adaptability

PROFESSIONAL EXPERIENCE

Software Engineer: Apptimus Tech (Pvt) Ltd   June 2020 — Nov 2020

Collaborated on cross-functional, data-driven projects across logistics, healthcare, and insurance industries. Supported strategic decision-making by structuring operational data, conducting stakeholder analyses, and developing backend logic. Gained experience working with relational databases and addressing user-centric reporting requirements.

- Developed a vehicle inspection system capturing operational metrics across fleets, enabling real-time decision-making.
- Gathered healthcare stakeholder requirements and developed system logic for managing patient records, appointments, and doctor availability.
- Delivered an insurance application to manage client appointments and interactions. Designed backend structures and reporting.

PROJECTS

Sentiment Analysis of Tweets⌽

- Conducted sentiment analysis on 10 000+ tweets (Python NLP), achieved 85 % accuracy and visualised insights in Matplotlib/Seaborn to surface emerging consumer trends..

Gender Bias Detection & Mitigation in Large Language Models

- Developed bias detection and mitigation techniques (prompt engineering, quantitative analysis) that systematically reduced gender bias in LLM-generated responses, achieving a 75 % improvement across multiple professions.

Greater London's Weather Trends Analysis ⌽

- Analysed 60 years of daily London weather data in R/Python, built visual dashboards and presented climate-trend insights to a research panel.

PUBLICATION

Co-authored *"A Comparative Study of Classifying English News Articles Using Machine Learning Algorithms"* 📄

EDUCATION

MSc Big Data Analytics   Sep 2023 — Nov 2024
Birmingham City University, UK
Relevant coursework: Big Data Management, Data Mining, Advanced Databases, Web Social Media Analytics

BSc (Hons) Computing & Information Systems   May 2017 — Jan 2022
Sabaragamuwa University of Sri Lanka
Relevant coursework: Analysis of Algorithms, Statistics, Agile Software Development, Software Engineering

CERTIFICATIONS

Microsoft Azure AI Essentials, Excel Essential Training, Ethics in the Age of Generative AI, Data Science, Statistics, Corporate Financial Statement Analysis