



Raphael B. Dias

Data Analytics | Machine Learning | GenAI | NLP | Web Development

Contacts

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Skills

- Data Analysis
- Machine Learning
- Market Research
- Agile Project Management
- Data Visualisation
- Automation & Scripting
- Structured Query Language
- Business Intelligence
- Web Development
- Data Mining & Extraction
- Dashboarding

Education

Cambrian College, Canada

2024

Project Management Graduate Certificate

Cambrian College, Canada

2023

Business Analytics Graduate Certificate

International Institute of Information Technology - B, India 2022

Data Science Post Graduate Diploma

St. Xavier's College, India 2021

Bachelor's Degree in Sociology

Tech Skills

- Python Programming, R
- MySQL, PostgreSQL, SQLite
- Tensorflow, Huggingface
- Power BI, Tableau
- Flask, Streamlit, Dash

Profile Summary

Data analytics and machine learning professional with 3+ years of experience across diverse industries, including services, consumer brands, med-tech, education, transportation, logistics, predictive maintenance, and weather sectors. Skilled in building data pipelines and translating data into actionable insights for strategic decision-making. Proficient in quantitative analysis and Python programming.

Professional Experience

● Cambrian College, Canada (On-site) [Nov '23 – Present]

Research Department – Specialist Program Performance Strategy.

- Implemented advanced algorithms reducing ~ 75% report generation time, optimizing efficiency significantly from 4 months to 1 week.
- Reduced data cleaning time for multiple unorganized reports, resulting in improved data accuracy for Power BI dashboards used by senior faculty.
- Developed strategies for sentiment classification, topic modeling, and keyword extraction, improving analysis accuracy.
- Overseeing data cleansing and standardization for co-op students, managing master data quality assurance, and resolving code and visualization issues.

● Sofvie Inc. Consulting, Canada (On-site) [May '23 - Aug '23]

Data Analytics Team – Research Assistant

- Created a Python-based Flask web application to streamline and optimize the report generation process.
- Implemented SQLAlchemy as the ORM tool and utilized PostgreSQL as the database for effective data management and integration.

● NorthStarDoc Med-Tech, USA (Remote) [Jun '22 - Aug '22]

IT Department – Software Implementation

- Implemented two Selenium automation programs, reducing profile setup time by 50%.
- Led migration of facility location data for clients across three USA regions and improved conversion rates by 15% through statistical analysis of referral data.

● iDeas Unlimited & SixthFactor Consultancy, UAE (Remote) [May '21 - Jun '22]

Market Research Department – Social Listening

- Led NLP initiatives, extracting 50 actionable insights per project, boosting client engagement by 20%.
- Implemented Twitter API pipeline, sourcing 10,000 daily tweets for client analysis.

Projects

● Solutions Developer (Facility Maintenance) | Mohawk College - City of Hamilton

Evaluate climate change's impact on facility operations' vulnerability to extreme weather, analyze data, and propose maintenance strategies. Developed an app that helps identify at-risk assets based on weather forecasts and FCI.

● Data Analyst (Accessible Transportation) | Mohawk College - City of Hamilton

Led a team in delivering a report to identify the possible solutions for ATS in Hamilton. Solutions included a feasible plan to integrate new transportation systems with existing and optimized route planning.