

# RAMESH MADHUBHASHITHA

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## PROFILE SUMMARY

Motivated Data Engineer with 3+ years of experience in data science, machine learning, AI, and Business Intelligence (BI) solutions. Proficient in Python, Azure, and Power BI, with a proven track record of delivering actionable insights and building robust analytical solutions that drive business growth. Adept at collaborating with clients and cross-functional teams to deliver high-impact projects and proposals. Enthusiastic about continuous learning and research in emerging technologies, with a proactive approach to tackling challenges and staying ahead of industry trends.

## EDUCATION

### WAYAMBA UNIVERSITY OF SRI LANKA

Dec 2016 – Dec 2021

B.SC. (JOINT MAJOR) DEGREE IN MATHEMATICS, MATHEMATICAL MODELLING & STATISTICS AND COMPUTING & INFORMATION SYSTEMS

- Cumulative GPA: 3.23/4.0
- Honor: Dean's List Academic year 2018 – 2019

## TECHNICAL SKILLS

- PROGRAMMING AND SCRIPTING QUERY LANGUAGES:** Python | R | SQL | DAX | M language | Java
- DATABASE DESIGN & MANAGEMENT:** SQL (SQL Server Management Studio, Postgres, MySQL)
- CLOUD TECHNOLOGIES:** Azure (Azure Function, Azure logic app, ADF, ADLS, Azure SQL Database) | AWS (S3, AWS RedShift)
- ML & AI:** OpenAI | MLflow | Microsoft Copilot Studio
- DATA VISUALIZATION:** Power Bi | Tableau
- BIG DATA TECHNOLOGIES:** PySpark | Spark SQL | Snowflake
- VERSION CONTROL:** Git | GitLab

## WORKING EXPERIENCE

### DATA ENGINEER | AXIATA DIGITAL LABS - SRI LANKA, COLOMBO

Feb 2023 – Present

- Designed, developed, and fully automated a comprehensive set of DAP National Sales dashboards and reports using Tableau, and created data marts on Snowflake to meet the specific requirements of Dialog Axiata PLC.
- Designed, developed, and fully automated a Data Lake and ETL pipelines using native Azure technologies, and created interactive, RBAC-based dashboards in Power BI for Axiata Group business users.
- Designed and developed an advanced API management analytics dashboard using Power BI embedded analysis solutions, enabling precise operational and business decision-making. Deployed the dashboard on the **Axonect API Manager platform**, providing comprehensive insights from developers to the CXO level, with a custom RBAC feature for enhanced security.
- As a solution to reduce resource usage, a GenAI-powered application has been developed and integrated to automatically generate API test cases.
- A machine learning solution was developed to identify the SQL injection attacks and integrated the Axonect API Manager platform.
- A machine learning solution was developed and integrated with the Axonect API Manager platform to identify frequently bought-together APIs.

### ASSOCIATE DATA ENGINEER | OCTOPUS BI - SRI LANKA, COLOMBO

Jun 2022 – Feb 2023

- Researched and assessed the implementation of data models and relationships, utilizing a variety of business intelligence tools, including Power BI, Tableau, Domo, and Qlik. The objective was to evaluate the performance of a large-scale fact table.
- Collaborated with structured and semi-structured data sources, engaged in data modelling, structuring, profiling, and cleansing utilizing Amazon Redshift. Additionally, developed dashboards with enhanced visualizations within the Octopus analytics platform.

### TRAINING – DATA ANALYST | OCTOPUS BI - SRI LANKA, COLOMBO

Dec 2021 – Jun 2022

- Dashboards were meticulously crafted using Figma to align with client specifications and then developed within the Octopus analytics platform.
- Conducted data analysis tasks including exploration, structuring, profiling, and cleansing.
- Developed data models using queries and utilized advanced visualization techniques to build impactful dashboards.

**INTERNSHIP TRAINING | CEYLON PETROLEUM CORPORATION - SRI LANKA, COLOMBO****Dec 2020 – Jun 2021**

- Data analysis functions related to financial, logistics, supply chain, and petroleum-related data have been undertaken.
- Developed and managed a Power BI dashboard to monitor daily demand for petroleum products at terminals.
- Assisted in the creation of the yearly procurement plan, utilizing data-driven insights to inform decision-making.

**PROFESSIONAL QUALIFICATIONS****Microsoft Transcript****Microsoft Certified: Fabric Analytics Engineer Associate****Nov 2024****Microsoft Certified: Azure AI Fundamentals****Oct 2023****Microsoft Certified: Azure Fundamentals****Oct 2023****PUBLICATIONS****JOURNAL PAPERS**

SRI LANKAN JOURNAL OF APPLIED SCIENCES

FORECASTING USD/ LKR DAILY EXCHANGE RATE WITH LONG-SHORT TERM MEMORY NEURAL NETWORK 2023

**CONFERENCE PAPERS**

9TH RUHUNA INTERNATIONAL SCIENCE &amp; TECHNOLOGY CONFERENCE (RISTCON– 2022)

FORECASTING DAILY PLATTS PRICE OF AUTO DIESEL USING TIME SERIES AND NEURAL NETWORK APPROACHES 2022

INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTING AND TECHNOLOGY (ICACT–2021)

MODELLING AND FORECASTING THE VOLATILITY OF DAILY EXCHANGE RATE USING GARCH MODEL 2021

THE APPLIED SCIENCE, BUSINESS, AND INDUSTRIAL RESEARCH SYMPOSIUM (ASBIRES 2021)

MODELLING AND FORECASTING OF AUTO DIESEL PRICE VOLATILITY 2021

THE POSTGRADUATE INSTITUTE OF SCIENCE RESEARCH CONGRESS (RESCON-2021)

LONG SHORT-TERM MEMORY NETWORK TO PREDICT DAILY PLATTS PRICE PER BARREL OF AUTO DIESEL 2021

**PROFESSIONAL EXPERIENCE**

- |                                  |                          |                               |
|----------------------------------|--------------------------|-------------------------------|
| • Software Development Lifecycle | • Cloud Computing        | • Troubleshooting & Debugging |
| • Solution Architecture          | • Coding & Programming   | • Advanced Critical Thinking  |
| • Software Engineering           | • Teamwork and Mentoring | • Leadership & Mentoring      |

**LEADERSHIP & VOLUNTEER EXPERIENCE**

- President—Mathematical Society of Wayamba, Wayamba University of Sri Lanka (2019 – 2020)
- Coordinator—ZEST Committee, Wayamba University of Sri Lanka (2019 – 2020)
- Member of the Leo Club – Leo Club of Galle (2020 - Present)
- Voluntary contributed at the IEEE SL SYWC-2019 organized by IEEE Sri Lanka section. (2019.12.19/20/21)
- Voluntary contributed at the Wayamba International Conferences (Winc) (2018.08.25)
- Voluntary contributed at the 9th Applied Science, Business, and Industrial Research Symposium (ASBIRES) (2017.08.03)

**REFERENCE**

Available upon request