
MININDU THILAKARATHNE

DATA SCIENCE GRADUATE | PASSIONATE BUSINESS ANALYTICS PROFESSIONAL

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[Portfolio](#) | [Email](#) | [LinkedIn](#) | [Github](#)

PROFESSIONAL SUMMARY

Ambitious and motivated Data Science graduate with expertise in data analysis, statistical modeling, and machine learning. Skilled in Python, SQL, Power BI, ERP systems for data visualization, business intelligence, and process optimization. Passionate about applying predictive analytics and data-driven decision making to solve business challenges. Committed to continuous learning and eager to pursue a Master of Business Analytics in Australia to strengthen expertise and drive business transformation.

WORK EXPERIENCE

Link Natural Products (Pvt) Ltd | Kapugoda, Sri Lanka

2025 July- Present

Data & ERP System Analyst

- Created Power BI dashboards and data models for performance tracking, reporting, and actionable insights.
- Managed ERP systems end to end, including implementations, upgrades, integrations, troubleshooting, and alignment with business processes.
- Monitors ERP system and database performance, identifies areas for improvement, conducts regular audits for data accuracy and system efficiency, and stays updated on the latest ERP technologies and best practices.
- Conducted software quality assurance through test plans, automation and detailed documentation.
- Performed data analysis, developed reports, and identified trends to support strategic and operational decision-making.
- Gathered requirements, analyzed business cases, and designed solutions with models, diagrams, and deployment overviews across the SDLC.

Governor's Camp Sri Lanka | Colombo 6, Sri Lanka

2025 January - 2025 June

IT Executive - BI

- Designed and implemented interactive Power BI dashboards visualizing booking trends, occupancy rates, and revenue insights, supporting data-driven decisions and improving operational transparency.
- Perform exploratory data analysis (EDA) to identify trends, patterns and anomalies.
- Performed review segmentation and sentiment analysis on customer reviews using pre-trained Hugging Face NLP models, identifying top service pain points and satisfaction drivers, resulting improvement in guest satisfaction scores.

Lanka Tiles PLC | Nugegoda, Sri Lanka

2023 July - 2024 April

Intern Data Analyst

- Designed and developed dynamic Power BI dashboards for cross-departmental use, delivering insights and enhancing data-driven decision-making across the organization.
- Built scalable ETL pipelines to integrate data from warehouses into Power BI, automating data cleaning and transformation, and reducing manual processing time.
- Validated finance dashboards against the enterprise data warehouse, ensuring 99%+ data accuracy and maintaining high reporting integrity for key stakeholders.
- Authored and optimized complex SQL queries for efficient data extraction, transformation, manipulation, and cutting report generation time.
- Collaborated with cross-functional teams to define KPIs, streamline reporting workflows, and improve the overall quality of analytics deliverables.
- Developed strong problem-solving, communication, and analytical skills by delivering solutions in a fast-paced, agile environment with rapidly evolving business needs.

EDUCATION

Sri Lanka Institute of Information Technology

2021-2024

B. Sc (Hons) in Information Technology Specialized in Data Science

- CGPA-3.24/4.0

GCE Advance Level (Maths Stream) Mahinda Rajapaksha College – Homagama (2nd attempt)	2020
<ul style="list-style-type: none"> Physics - C, Chemistry- C, Combined Mathematics - C 	
GCE Advance Level (Maths Stream) Mahinda Rajapaksha College – Homagama (1st attempt)	2019
<ul style="list-style-type: none"> Physics - S, Chemistry- S, Combined Mathematics - S, English – A 	
GCE Ordinary Level Mahinda Rajapaksha College – Homagama	2016
<ul style="list-style-type: none"> Mathematics-A, Science-A, English- A, Buddhism-A, Sinhala -A, History-A, Drama-A, Commerce-A, Agriculture-A 	

PUBLICATIONS

"Real-time Quality Monitoring System for the Apparel Industry in Sri Lanka" International Conference on Advancement in Computing (ICAC), 2024

ACHIEVEMENTS

- Awarded Dean's List Certification Year 4, Semester 2 <https://www.linkedin.com/posts/>
- Awarded Dean's List Certification Year 4, Semester 1 <https://www.linkedin.com/posts/>

PROJECTS

Realtime Defect Prediction System (Final Year Research Project)

Collaborated with the R&D Department at **MAS Linea Aqua**, Hanwellla, Sri Lanka, to develop a cloud based IoT solution for defect detection.

- Technology:** CNN, YOLO, Machine Learning

Data Warehouse and Business Intelligence Project

Developed a PowerBI dashboard, delivering meaningful business intelligence for informed decision-making.

- Tools:** Power BI
- GitHub Repository:** [MininduT/Power-BI-Projects](#)

Internet of Things Project: Temperature & Humidity Monitoring System

Designed and implemented a smart home system to monitor and control temperature and humidity. Developed a user interface and integrated Node-RED for data visualization. Utilized ARIMA model for forecasting future conditions to optimize system performance.

- Tools and technologies:** Arduino, Node-RED, Python, Machine Learning
- GitHub Repository:** [MininduT/Internet-of-Things-IoT---Smart-Home-System](#)

Customer Churn Prediction Model

Developed machine learning models to predict customer churn using Python. Performed data preprocessing, feature engineering, and applied classification algorithms to identify at-risk customers, enabling proactive retention strategies.

- Tools:** Jupyter Notebook, Streamlit, Machine Learning
- GitHub Repository:** [MininduT/Customer-Churn-Prediction-Model](#)

Personalized Movie Recommendation Engine

Personalized movie recommendation engine using both content-based & collaborative filtering to get movie recommendations.

- Tools:** Jupyter Notebook, Streamlit, Machine Learning
- GitHub Repository:** [MininduT/Movie-Recommendation-System](#)

Customer Segmentation

Implemented customer segmentation using Python, feature engineering, PCA, and K-Means clustering to analyze purchase behavior and identify actionable customer groups.

- Tools:** Jupyter Notebook, Streamlit, Machine Learning
- GitHub Repository:** [MininduT/Customer-Segmentation](#)

Sentiment Analysis

Implemented a sentiment analysis pipeline using a pre-trained BERT model. Scraped online product reviews, tokenized text data, and classified sentiments. Visualized sentiment distribution using Seaborn to derive insights for product feedback.

- **Tools:** Jupyter Notebook, Streamlit, Machine Learning
GitHub Repository: [MininduT/Sentiment-Analysis](#)

Weather Classification Project

Developed a weather classification model using Support Vector Machine (SVM). Preprocessed and scaled data, visualized feature distributions, and tuned model kernels (linear, RBF) to achieve 90.9% accuracy in predicting weather types based on meteorological data.

- **Tools:** Jupyter Notebook, Streamlit, Machine Learning
GitHub Repository: [MininduT/Weather-Type-Classification](#)

Coconut Oil Factory Management System web application-Client Base project

A coconut oil factory management system is a software application designed to client to help manage and streamline the production process of a coconut oil manufacturing facility. The system may include features such as inventory management, production scheduling, Transport management, financial management, staff management and supplier management.

- **Technology:** MERN
GitHub Repository: <https://github.com/IT21049590/Coconut-OilFactory-ManagementSystem>

SKILLS, FAMILIAR TECHNOLOGIES & TOOLS

- Data Analysis
 - MS SQL Server
 - MySQL
 - R
- Data Visualization
 - ERP Systems
 - Cloud Platforms
 - Python
- Machine Learning
 - Power BI / Excel
 - SQL
 - ETL & Data Warehousing

COURSES AND CERTIFICATIONS

Introducing the Industrial Manufacturing Industry by SAP	2025
Foundations of Business Intelligence by Google	2025
Machine Learning Specialization by DeepLearning.AI and Stanford University	2025
Microsoft Azure Fundamentals (AZ-900) Cert Prep by Microsoft Press offered by LinkedIn	2025
Microsoft Power BI Data Analyst Associate (PL-300) Cert Prep by Microsoft Press offered by LinkedIn	2025
Introduction to Microsoft Fabric by Microsoft Press offered by LinkedIn	2025
Complete Guide to Power BI for Data Analysts by Microsoft Press offered by LinkedIn	2025
AI/ML Engineer Stage 1 offered by Centre for Open and Distance Education, Faculty of Computing, SLIIT	2024
AI/ML Engineer Stage 2 offered by Centre for Open and Distance Education, Faculty of Computing, SLIIT	2024
Introduction to Data Science offered by Cisco	2023
Data Analytics Essentials offered by Cisco	2023
Introduction to IoT offered by Cisco	2023
Introduction to Machine Learning offered by Great Leading Academy	2023
Business Intelligence and Knowledge Management Systems offered by Alison	2023
Python for beginners (Center for open and Distance learning (CODL), University of Moratuwa)	2022

REFEREES

Contact details available on request