

# Ranthilini Prarthana

Data Science Undergraduate

## BSc (Hons) in Information Technology, Specialising in Data Science

Sri Lanka Institute of Information Technology (SLIIT)

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### PROFILE

Detail-oriented and analytical Data Analyst with hands-on experience in Power BI, Excel, SQL, MS SQL, and MySQL. Skilled in analyzing structured and unstructured datasets, performing ETL processes, and developing interactive dashboards that translate complex data into actionable business insights. Possesses proven expertise in data warehousing, data visualization, and statistical analysis. Strong communicator with the ability to collaborate effectively with cross-functional and global teams. Adept at data storytelling, KPI reporting, and ensuring data accuracy, consistency, and reliability. Currently completing a BSc (Hons) in IT specializing in Data Science.

### PROFESSIONAL EXPERIENCE

#### Intern Data Advocate - Stretchline Holdings Ltd

05/02/2025 - 03/11/20225

- Developed and maintained interactive Power BI dashboards (Paid vs. Worked Hours, Onboarding & Offboarding, Machine Utilization) integrating data from Oracle systems, delivering actionable insights for operational efficiency
- Analyzed large datasets using SQL and Excel, ensuring high data accuracy and timely reporting across multiple business units
- Collaborated with cross-functional teams to translate business requirements into data-backed reports and dashboard solutions.
- Supported the development of an employee termination prediction model using Python (preprocessing, feature selection, validation).
- Created comprehensive reports in Datatex NOW system using DB2 SQL, supporting backend data operations and business intelligence

#### Intern DevOps Engineer - Sri Lanka Telecom Digital Platform

15/07/2024 - 15/01/2025

- Managed isolated development environments using VirtualBox and VMware.
- Optimized deployment pipelines integrating Docker and Jenkins, enhancing CI/CD workflows.

#### Intern School Leaver - People's Bank Head Quarters, Documentation Unit

27/04/2022 - 26/10/2022

- Streamlined document archiving processes, contributing to improved infrastructure for documentation.
- Enhanced team communication by creating efficient task tracking reports.

### EDUCATION

#### BSc (Hons) in Information Technology Specialising in Data Science

2022 - present

Sri Lanka Institute of Information Technology (SLIIT)

Data Science, Data Analytics, Statistics, Machine Learning, Data Warehousing & BI, Visualization, Data Structures & Algorithms, Cloud Computing.

#### G.C.E. Advanced Level – Physical Science Stream

2018 - 2020

WP/GM/Rathnavali Balika Vidyalaya

### TECHNICAL SKILLS

- Data Engineering & Analytics:** Data Cleaning, Transformation, ETL Development, Data Warehousing, SQL (MS SQL, MySQL, Oracle), Power BI (DAX, Data Modelling, Dashboard Development), Data Storytelling & KPI Development, MS Excel (Advanced: Pivot Tables, Power Query, Functions), Data Quality, Validation & Documentation
- Programming:** Python (Pandas, NumPy, Scikit-learn), R, Java, C/C++, Kotlin, HTML/CSS, MERN stack
- Data Science & ML:** Machine Learning, Neural Networks, Statistical Analysis, Exploratory Data Analysis, Data Visualization
- Cloud & Tools:** AWS (basic), GitHub, Docker, Jenkins, VirtualBox

## SOFT SKILLS

Analytical Thinking  
Problem Solving  
Communication & Team Collaboration  
Planning & Coordination  
Presentation

## PROJECT EXPERIENCE

### Employee Termination Prediction Model

- Developed a supervised classification model using HR data to predict employee attrition through exploratory data analysis and statistical modeling, collaborating with business stakeholders to deliver data-driven recommendations

### Power BI dashboard with BMW Sales Data

- GitHub link - <https://github.com/ranthilini/Power-BI-dashboard-with-BMW-Sales-Data.git>
- Designed interactive Power BI dashboards leveraging DAX for actionable business insights, conducting comprehensive ETL processes including data cleaning, transformation, and modeling
- Developed KPIs and dynamic visualizations to create compelling data stories through intuitive dashboard design that enhanced user interactivity and drove business insights

### End to End Text-Summarization and Analysis System

- GitHub link - <https://github.com/ranthilini/End-to-End-Text-Summarization-and-AnalysisSystem.git>
- Developed an end-to-end text summarization and analysis system with sentiment analysis, keyword extraction and topic modelling, using NLP techniques

### CandyCrush Android MobileApp Game

- GitHub link - <https://github.com/ranthilini/CandyCrushSaga-AndroidAPP.git>
- Developed an Android mobile game application, focusing on interactive gameplay, user-friendly UI, and optimized performance.

## CERTIFICATIONS

### Python Development & Data Science

Offered by Udemy Academy

Exploring various data types, including numeric, boolean, and strings. Mastering the input() function, constants, and how to effectively use and manipulate variables

### Power BI for Beginners

Offered by Simplilearn Learn

Covering Power BI basics, DAX functions, data modeling, and dashboard creation.

### Python for Data Visualization: The Complete Masterclass

Offered by Cisco Networking Academy

Created impactful visualizations using Matplotlib, Seaborn, and Plotly in Python and designed interactive dashboards for exploring and analyzing data

## EXTRA CURRICULAR ACTIVITIES

### Member – Data Science Student Community

2024 – Present

Participated in workshops, hackathons, and peer knowledge sharing sessions

## REFERENCES

### Mr. Samadhi Chathuranga Rathnayake

- M.Sc (CS) | B.Sc (IS) | B.Eng (SE) | PG.Dip (SML) | PG.Dip(HRM)
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