

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

Results-driven Data Analyst with hands-on experience in analyzing large datasets, creating interactive dashboards, and delivering data-driven insights that support business decisions. Proficient in Power BI, Excel, and Ms SQL, MySQL with proven expertise in ETL processes, data warehousing, data visualization, and statistical analysis. Demonstrated ability to translate complex data into compelling stories through dashboards and reports while ensuring data accuracy and quality. Strong collaborator with experience working across cross-functional teams to deliver actionable business recommendations. Eager to leverage analytical skills and technical expertise to drive intelligence and innovation in a dynamic, global environment.

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 technical solutions and data-driven recommendations
- Supported employee termination prediction model development using Python, performing data preprocessing, feature selection, and model 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, Statistics, Machine learning, Optimization, Data analytics, Data structures and algorithms, Data visualization, Data warehousing and business intelligence, OOP concepts, Cloud computing.

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

2018 - 2020

WP/GM/Rathnavali Balika Vidyalaya

TECHNICAL SKILLS

- **Data Engineering & Analytics:** ETL, Data Warehousing, Ms SQL, MySQL, Oracle, Power BI (DAX, Dashboard Development), Data Storytelling, MS Excel (Advanced), Data Quality & Validation
- **Programming:** Python (Pandas, NumPy, Scikit-learn), R, Java, JavaScript, C/C++, Kotlin, HTML/CSS, MERN stack
- **Data Science & ML:** Machine Learning, Neural Networks, Statistical Analysis, Exploratory Data Analysis, Data Visualization
- **Business Intelligence:** BI Reporting, Data Quality & Validation, KPI Development, Data Modeling
- **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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