

# Dhanushi Pemarathna

Data Analyst Enthusiast | Data Science Undergraduate  
Nugegoda, Sri Lanka



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## PERSONAL SUMMARY

Analytical and motivated data analyst skilled in Python, Power BI, and R, with experience in data preprocessing, dashboards, and predictive modeling. Strong at uncovering insights, improving data workflows, and communicating findings to support data-driven decisions and business growth.

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## WORK EXPERIENCE

### Data Assist (Intern)

*Ministry of Finance – Department of Management Services*  
Aug 2025 – Present | Colombo

- Cleaned, validated, and organized datasets for internal and administrative reporting.
- Performed **province-wise cadre analysis** to support the national cadre review process.
- Contributed insights during cadre review discussions and ensured accurate data workflows.

### Survey Enumerator (Part-time)

*Institute for Participatory Interaction in Development (IPID)*  
Mar 2025 – Apr 2025 | BIA – Katunayake Airport

- Collected accurate passenger survey data and ensured completeness and reliability of responses.
- Communicated professionally with both international and local travelers.

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## EDUCATION

### B.A (Hons) Information Technology (Data Science)

University of Sri Jayewardenepura | 2022 – Present | **GPA: 3.42**

### G.C.E A/L – 2020

3 As | Z-score: 1.9517 | **District Rank: 21** (Kegalle)

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## RELEVANT COURSEWORK

- |  |                            |                                |
|--|----------------------------|--------------------------------|
| • Data Visualization and Management        | • Descriptive Statistics   | • ML & Big Data Analytics      |
| • Data Mining & Data Warehousing           | • Intermediate Mathematics | • Data Structures & Algorithms |
| • Business Intelligence & Visual Analytics |                            |                                |

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## SKILLS SUMMARY

### Data Analysis

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|---------------------------------|-----------------------------------|-----------------------|
| • Data Cleaning & Preprocessing | • Exploratory Data Analysis (EDA) | • Predictive Modeling |
| • Data Visualization            | • Statistical Analysis            |                       |

### Technical

- Excel • Power BI • MySQL • Python (Pandas, NumPy, Scikit-learn, TensorFlow) • Trello

### Soft Skills

- Analytical Thinking • Problem Solving • Communication • Teamwork • Time Management

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## PROJECTS

### Machine Learning & Deep Learning Projects

- **Entrepreneur Face Recognition (Traditional ML):** Built SVM, Random Forest, and Logistic Regression models using TensorFlow, OpenCV, PyWavelets; achieved **80.70% accuracy** ([GitHub](#)).
- **Entrepreneur Face Detection (Deep Learning):** Used transfer learning (MobileNetV2, EfficientNetB0, DenseNet121) for image classification; achieved **85.29% accuracy** with DenseNet121 ([GitHub](#)).
- **Real-Time Stock Price Prediction App:** Developed a Streamlit web app using **MLP, SimpleRNN, LSTM** for classification & regression with yFinance data ([GitHub](#)).
- **Diabetes Prediction System:** Built ML models (Random Forest, Logistic Regression, SVM, Decision Tree) with preprocessing, cross-validation, and confusion matrices ([GitHub](#)).

### Power BI Projects

- Call center performance dashboard ([Link](#)).
- Adidas sales performance dashboard ([Link](#)).
- Customer churn analysis dashboard ([Link](#)).

### R & RStudio Projects

- **Railway Data Analysis:** Developed an R Markdown project analyzing ticket types, payment methods, and train delays using **tidyverse, dplyr, ggplot2** ([GitHub](#)).

### Research Project - Deep Learning Approaches for Tea Leaf Disease Detection

- Analyzed a dataset of **5000+ images** and conducted extensive exploratory analysis.
- Built and compared CNN models (MobileNetV2, InceptionV3, Custom CNN).
- Achieved **89.23% accuracy** and deployed the model using Streamlit for prediction.

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## CERTIFICATION

- Advanced Python for AI Engineering – Miha Institute (2025)
- Spoken English Course – Lifeway English Academy (2018)

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## EXTRACURRICULAR ACTIVITIES

### Assistant Event In-Charge – Robarosiya’25

University of Sri Jayewardenepura

Organized, coordinated, and managed event activities, gaining leadership and project planning experience.

### Deputy Head Prefect – Malalpola Maha Vidyalaya – 2017

Managed student leadership tasks, improving communication and coordination skills.

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## NON – RELATIVE REFERENCES

Mr. Lasantha Nawarathna  
Head of the department  
Department of Social Statistics  
University of Sri Jayewardenepura  
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Mr. Suresh Nalaka  
Senior lecturer  
Department of Social Statistics  
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