

# B.V. Kasun Vishvajith Vithanage

BSc (Hons) in Data Science | University of Colombo, Faculty of Science

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## PROFESSIONAL SUMMARY

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Final year BSc Data Science student at the University of Colombo with hands on experience in statistical modelling, machine learning, and end-to-end analytical workflows. Experienced in ETL pipeline development, SQL/NoSQL database management, and data preprocessing, with practical exposure to containerisation, CI/CD, and big data tooling. Demonstrated ability to build and evaluate models across regression, classification, and time series domains. Seeking an internship in Data Science, ML Engineering, Data Engineering, or MLOps to contribute to production grade data and ML systems.

## TECHNICAL SKILLS

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**Languages:** Python, R, SQL

**Data Analysis & Preprocessing:** Pandas, NumPy, Data Cleaning, Exploratory Data Analysis (EDA), Advanced Data Analysis

**Machine Learning & Deep Learning:** Regression, Classification, Time Series Forecasting

**Business Intelligence:** Power BI, Tableau

**Databases:** MySQL, MongoDB (basic)

**Tools & Platforms:** Jupyter Notebook, VS Code, RStudio, Minitab, SPSS

**DevOps:** Git/GitHub, GitHub Actions, Docker, Databricks (basic)

**Web Development (Basic):** HTML, CSS, JavaScript

## PROJECTS

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**Diamond Intel** | *Python, CatBoost* | Group Project

- Solved the gemstone pricing problem where nonlinear relationships between physical attributes and market value make accurate valuation difficult.
- Used a dataset of diamond listings with attributes (carat, cut, colour, clarity, dimensions); applied log transformation and trained a CatBoost regression model with a two-tier confidence system.
- Built a web application that outputs price estimates with 90% and 95% statistically bounded confidence intervals.
- Learned how target transformation stabilizes skewed distributions and directly improves regression model generalization.

**EV Range Analysis and EDA** | *R, Multiple Linear Regression, Logistic Regression* | Group Project

- Investigated what physical and design factors most influence electric vehicle driving range.
- Used a 478-observation EV dataset; performed EDA with scatter plots and box plots, then built a forward-selection MLR and a logistic regression classifier.
- Achieved an Adjusted  $R^2$  of 0.952 for range prediction and 95.8% accuracy in classifying EVs into short-range and long-range categories.
- Learned how EDA reveals patterns that model coefficients alone do not fully capture.

**Tea Yield Forecasting** | *Python, SARIMAX, CatBoost* | Group Project

- Addressed the challenge of forecasting tea production across diverse tea types and elevation levels in Sri Lanka.
- Used historical production records with environmental variables (rainfall, temperature, humidity); built a SARIMAX model for seasonal trends and separate CatBoost models for each of 21 type-elevation combinations.
- Generated category-specific production forecasts capturing elevation-driven and environmental variability.
- Learned how decomposing a multi-output forecasting problem improves both interpretability and model performance.

## EDUCATION

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**BSc (Hons) in Data Science** | University of Colombo, Faculty of Science 2023 – Present (Final Year)

- **GPA:** 3.82/4.00
- **Dean's List Recipient:** 2022/2023, 2023/2024, 2024/2025
- **Relevant Modules:** Machine Learning, Deep Learning, Multivariate Analysis, Statistical Inference, Time Series Analysis, Causal Inference, Data Structures & Algorithms, Database Management, Optimization, Big Data Analytics, Natural Language Processing.

**G.C.E. Advanced Level** | Ananda College, Colombo 10 2021

- Physics – **A** | Chemistry – **B** | Combined Mathematics – **C**

**G.C.E. Ordinary Level** | Ananda College, Colombo 10 2018

- **8 A passes** and 1 C pass across 9 subjects.

## WORK EXPERIENCE

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**Customer Call Operator, Recoveries Division** | Commercial Bank Head Office Feb 2023 – May 2023

- Contacted at-risk customers to communicate recovery terms, maintained call records, and developed professional communication skills in a regulated financial environment.

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

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**IT Director** | Rotaract Club, University of Colombo, Faculty of Science 2024 – 2025

- Managed digital operations, social media, and coordinated an IT volunteer team to produce promotional content and support club events.

**First Year Coordinator** | Faculty of Science Student Union, University of Colombo 2025 – 2026

- Elected liaison between first-year students and the union board, representing academic, welfare, and administrative concerns.

**First Year Representative** | Physics Society, University of Colombo 2023 – 2024

- Represented first-year students, encouraged participation in workshops, and supported event coordination.

**IT Team Member** | Stat Circle, Department of Statistics, University of Colombo 2023 – 2024

- Produced promotional posters, videos, and event highlight reels for departmental activities.

## REFEREES

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**Dr. Sameera Viswakula**

Senior Lecturer, Dept. of Statistics  
University of Colombo

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**Dr. D.S. Wickramarachchi**

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