

S.P.Y. Sithum Sasmika

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SUMMARY

Data Science and Business Analytics undergraduate pursuing a **BSc (Hons) in Data Science and Business Analytics** at General Sir John Kotelawala Defence University (KDU). Skilled in analyzing datasets, identifying patterns, and supporting data-driven decision making. Strong interest in Artificial Intelligence, Machine Learning, and analytics-driven business insights. —————

EDUCATION

2023 – 2026 **BSc (Hons) Data Science and Business Analytics**
General Sir John Kotelawala Defence University (KDU)
Dean's List Awardee – 2023

2008 – 2021 **G.C.E Advanced Level – Physical Science**
Royal College, Colombo 07

SKILLS

Programming	Python, R, SQL
Machine Learning	Regression Models, Classification Models, Model Evaluation
Data Analysis	Exploratory Data Analysis, Data Cleaning, Data Interpretation
Tools	Power BI, Microsoft Excel, Jupyter Notebook
Business Analysis	Requirement Gathering, Stakeholder Communication, Process Mapping

PROJECTS

CropNext – Vegetable Harvest Forecasting System 2024

- Analyzed agricultural datasets to identify production trends affecting vegetable harvest outcomes.
- Generated insights supporting data-driven agricultural planning.

Quick Job – Job Posting & Entrepreneurship Platform 2024

- Investigated inefficiencies in job posting and candidate matching processes.
- Defined functional requirements and designed conceptual workflows to improve job matching efficiency.

Secure Complaint Reporting Platform for Women in Public Bus Transport 2024

- Analyzed safety and complaint reporting challenges faced by women in public transportation.
- Designed a conceptual system to support secure and ethical complaint reporting.

Gov.lk Services Portal – Frontend Prototype 2025

- Developed an interactive prototype for a centralized government services portal enabling citizens to access departments, search services, and book appointments.
- Designed responsive web interfaces including homepage, service pages, officer dashboard, and citizen dashboard.

SkillMatch – Industry Project Matching Platform

2025

- Designed a conceptual system for allocating students to industry projects based on skills and project requirements.
- Proposed improvements to increase project assignment efficiency.

Employee Absenteeism Analysis & Prediction

2025

- Analyzed employee absenteeism datasets to identify productivity challenges.
- Conducted exploratory data analysis to determine key absenteeism drivers.
- Generated insights supporting workforce planning and HR decision making.

PUBLICATIONS

- *A Comprehensive Review of Machine Learning Models for Predicting and Reducing Employee Absenteeism*
SLTC International Research Conference – 2025
- *Analyzing Trends and Determinants of Employee Absenteeism in the Apparel Manufacturing Sector*
FAS SEUSL Research Conference – 2025

LEADERSHIP

- University Ambassador — G17 UAC Global Fellowship Program (2024–2025)
- Event Chair — ENVISION 3.0, IEEE Student Branch KDU (2025)
- Joint Editor — OREPA Newsletter, Old Royalists' Engineering Professionals' Association (2025–2026)

CERTIFICATIONS

- Data Analytics Essentials — Cisco
- Python Essentials 1 — Cisco
- CCNA: Introduction to Networks — Cisco
- Computer Hardware Basics — Cisco

LANGUAGES

English, Sinhala

REFERENCES

Dr. (Mrs.) D.U. Vidanagama — Head of the Department, Department of Computational Mathematics, Faculty of Computing, General Sir John Kotelawala Defence University
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