

Samoda De Silva

Final Year Data Science Undergraduate at General Sir John Kotelawala Defence University | Data Science Intern |
Member of KDU Toastmasters Club (District 82)

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Career Summary

Final-year Data Science undergraduate with expertise in data analysis, machine learning, and visualization. Experience developing AI-powered applications, forecasting systems, and interactive dashboards to support data-driven decision making.

Professional Skills

- **Data Science & Analytics:** SQL, Azure SQL, Python, R, Power BI.
- **Programming & Development:** Java, CSS, Ballerina, Streamlit
- **Research & Problem Solving:** Strong analytical and problem-solving skills
- **Visualization & Reporting:** Power BI dashboards, Excel, Word, PowerPoint
- **Communication & Collaboration:** Public Speaking, Technical Writing, Cross-team collaboration
- **Machine Learning & AI:** ARIMA, Prophet, Reinforcement Learning, NLP (LSA, summarization)

Education

- **General Sir John Kotelawala Defence University, Sri Lanka** 2024 – 2026
B.Sc. in Applied Data Science and Communication (Undergraduate)
Dean's List – 2024
- **Sri Lanka Economics and Finance Olympiad (SLEFO)** 2023
Finalist – Top 20
- **AAT Sri Lanka** 2021 – 2023
Diploma in Accounting & Business (Passed – Finalist)
- **Sri Sumangala Girls' School, Panadura** 2009 – 2022
GCE Advanced Level – English Medium
Subjects: Accounting (B), Economics (C), Combined Mathematics (S)
- **University of Cambridge, UK** 2013 – 2014
Cambridge ESOL Entry Level Certificate – Council of Europe Level A1
- **Cambridge Young Learners English (YLE)** 2011 – 2012
ESOL Examinations: Starters, Movers, Flyers

Achievements & Certifications

- **AI and Data Science Club, KDU** 2025
1st Runner-Up – Data Odyssey Competition (Team: NeuroBloom)
- **AI and Data Science Club, KDU** 2024
Advanced to Round 2 – Data Odyssey Competition (Team: Byte-Seekers)
- **Toastmasters International – Club 8706** 2024 – Present
Dynamic Leadership Pathway – Completed Levels 1-3; Currently Reading Level 4
- **Microsoft** 2025 – Present
Preparing for DP-900: Microsoft Certified – Azure Data Fundamentals

Projects

- **Akuru Mithura – Sinhala Voice-to-Text & Grammar Assistant**
AI web platform for dysgraphia students with speech recognition and grammar feedback. [GitHub](#)
- **Demand Forecasting System with Interactive Dashboard**
Built ARIMA and Prophet forecasting models with a Streamlit analytics dashboard. [GitHub](#)
- **Policy AI Decision Support System**
NLP-based policy summarization and chatbot for analyzing complex policy documents. [GitHub](#)
- **RL-Based Hotel Recommendation System**
Developed a Q-learning agent to generate personalized hotel recommendations. [GitHub](#)
- **Eco AI Agent – Carbon Footprint Calculator**
Built a REST API and web app using Ballerina for real-time carbon footprint analysis. [GitHub](#)
- **Azure SQL & Power BI Migration Data Analysis**
Processed migration datasets using Azure SQL and visualized trends in Power BI dashboards. [GitHub](#)
- **Energy Performance Analysis – Manchester**
Analyzed energy efficiency trends using SQL and created Power BI sustainability dashboards. [GitHub](#)
- **UK Public Sector Data Mining (R)**
Applied classification, clustering, and model evaluation on government datasets. [GitHub](#)
- **Association Rule Mining – UK Council Spending**
Identified spending patterns using association rules to support financial insights. [GitHub](#)
- **Logistic Regression – London Fire Brigade Incidents**
Predicted incident outcomes using logistic regression and model evaluation metrics. [GitHub](#)

Leadership & Experience

- **Secretary, AI and Data Science Club, KDU** 2025 – 2026
- **Co-Social Media Analyst, AI and Data Science Club, KDU** 2024 – 2025
- **Standing Committee Member – Social and Reception, KDU Toastmasters Club** 2024 – 2025
- **Senior and Junior Prefect, Sri Sumangala Girls' School, Panadura** 2017 – 2021

Extra Curricular Activities

- Visharad Exam in Bharat Natyam (Part II) – First Division (398/600), English Medium
- Bharat Natyam Certifications: Part I (Pass), Madhyama (Second Division), Prathma (First Division), Prevehika (First Division)
Bhatkhande Sangit Vidyapith, Lucknow, India

Publications

- Design and Evaluation of a Sinhala Voice to text and Grammar Feedback Assistant for Dysgraphia Students.
- Design a Feature based Reinforcement Learning Agent for Hotel Selection in Sri Lanka - A pilot study using 2025 Tourist Data.
- Developing a Soil-Based Microclimate Zoning Model for Crop Recommendation in Sri Lanka Using Spatial, Soil Property and Land Use Data.

References

References available upon request.