

Kisanja Samarakoon

DATA SCIENCE UNDERGRADUATE

PROFESSIONAL SUMMARY

Motivated Data Science undergraduate at SLIIT with strong foundation with programming, statistic and data analysis. Experienced in using data to solve real world problems and support decision making through hands on academic projects. Comfortable with Python, SQL, and data visualization tools, and eager to learn new technologies and frameworks.

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EDUCATION

BSc(Hons) in Information Technology Specialization in Data Science | 2023-2027

Sri Lanka Institute of Information Technology (SLIIT), Malabe

- Relevant Coursework: Data Science, Machine Learning, Data Mining and Data Warehousing, Data Structures and Algorithms, Database Management Systems, Cloud Computing
- CGPA: 3.53

G.C.E. Advanced Level Examination | 2019-2021

Badulla Central College, Badulla

- Results : Combined Maths : C, Chemistry : C, Physics : S

G.C.E. Ordinary Level Examination | 2018

Badulla Central College, Badulla

- Results : Pass

TECHNICAL SKILLS

- **Programming Languages** - Python, R, Java, JavaScript, HTML, CSS
- **Data Science and ML** - pandas, NumPy, scikit-learn, Keras, Matplotlib, Seaborn
- **Tools and Frameworks** - Jupyter Notebook, React.js, Express.js, Node.js, Postman
- **Databases** - MySQL, MongoDB
- **Project Management Tools** - Trello, Jira
- **Version Control System** - Git
- **Design and Prototyping** - Figma

CERTIFICATES AND AWARDS

- AI/ML Engineer stage 1 - Centre for Open and Distance Education (CODE) at SLIIT
- AI/ML Engineer stage 2 - Centre for Open and Distance Education (CODE) at SLIIT
- Dean's List Award - SLIIT (Year 1 Semester 1)

SOFT SKILL AND INTERESTS

- **Areas of Interest** : Data Science and Machine Learning, Data Analytics and Visualization, Web Application Development.
- **Soft Skills** : Teamwork, Problem Solving, Adaptability, Time Management, Communication

PROJECTS

Health Bridge: Public Health Info AI (Completed Project)

Role : Full Stack Developer

- Built a multi-agent health forecasting platform using FastAPI and React, with a strong focus on the Orchestrator and Chat Agent modules. Designed the orchestrator service that coordinated retrieval, forecasting, and security agents under single API, and implemented the chat agent (FastAPI + LLM) to handle natural language questions and deliver safe, structured responses.

- **Technologies Used :** React, FastAPI, Python, Statsmodels (SARIMAX), Pandas, Joblib, Node.js, Uvicorn

GitHub link : <https://github.com/Kisanja/IRWA-Project-Public-Health.git>

Used Car Price Prediction (Completed Project)

Role : Data Science and Full Stack Developer

- Built an end-to-end ML system to predict used car prices using LightGBM regression and K-Means clustering. Implemented the full data pipeline including preprocessing, outlier handling (Winsorization), rare category grouping, and model evaluation (MAE, RMSE, R²). Developed an interactive Streamlit web app with modules for price prediction, market segmentation, recommendations, and model explainability, and deployed it on Streamlit Cloud with optimized dependencies and artifact loading.

- **Technologies Used :** Python, Pandas, NumPy, Scikit-learn, LightGBM, Streamlit, Joblib

GitHub link : <https://github.com/Kisanja/FDM-Mini-Project.git>

Falcon SuperLine: Bus Ticket Booking System (Completed Project)

Role : Full Stack Developer

- Built a MERN based bus ticket booking system that manages bus operations and online ticketing, including an admin dashboard with full CRUD for buses, routes, schedules, and ticket prices. A finance module to track income, expenses, and petty cash for each bus. A customer facing interface to search buses and routes, check availability, and book tickets online and secure JWT based authentication with role based access control for admin and customers.

- **Technologies Used :** React.js, Node.js, Express.js, MongoDB, Bootstrap CSS, JWT

GitHub link : <https://github.com/Kisanja/Falcon-SuperLine.git>

Grocery Management System - Supplier Module (Completed Project)

Role : Full Stack Developer

- Developed the Supplier management module of a MERN based grocery management system, enabling shop owners to request items from registered suppliers, apply to become suppliers through an approval workflow where an admin supplier approves or rejects the requests, and providing interfaces and APIs for suppliers to add items and manage their product listing in the system.

- **Technologies Used :** React.js, Node.js, Express.js, MongoDB

GitHub link : <https://github.com/Kisanja/ITP-Supplier-Relationship-Management.git>

Online Book Store (Completed Project)

Role : Java Developer

- Developed a Java based online book store application with separate admin and customer roles. Where admin can perform full CRUD operations on books and view detailed book information, while customers can search for books, add them to a cart, and purchase them. Implemented session management to handle user login and cart state, and applied object oriented concepts throughout the design.

- **Technologies Used :** Java, OOP, Session Management, Servlets/JSP, MySQL

GitHub link : <https://github.com/Kisanja/Bookshop-Management.git>

REFERENCES

Dr. Prasanna S. Haddela

Dean/ Academic - SLIIT Matara Centre

Head/ Graduate Studies - FoC

Senior Lecturer (HG) - FoC

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