
Malindu Gimhana

Data Science Undergraduate

Sri Lanka | hello.malindu@gmail.com

Third-year BSc (Hons) Information Technology undergraduate specializing in Data Science at SLIIT. Background in statistical analysis, machine learning, data warehousing, business intelligence, backend development and professional 3D visualization.

EDUCATION

Sri Lanka Institute of Information Technology - SLIIT

BSc (Hons) Information Technology, specializing in Data Science | Third year | GPA: 3.49 / 4.0

Focus: Data Analytics, Statistics, Data Warehousing, Database Management, OOP and Software Engineering.

EXPERIENCE

MAS Holdings - Silueta | Industrial Engineering Intern

February 2026 - August 2026

Developed Smart BOM Predictor to estimate jig manufacturing costs and material consumption from historical BOM and production data. Work included preprocessing, feature engineering, ML model development, analytical reporting and collaboration with process engineers on manufacturing workflows and production planning.

VAEG - Visual Art and Experiences Group | Assistant 3D Generalist

September 2023 - June 2024

Created professional 3D visualizations, event assets and interactive experiences with Unreal Engine. Contributed to client projects, production workflows and cross-functional collaboration.

SELECTED PROJECTS

Workplace Stress Factor Analysis | Statistical consultancy

Analyzed 22,750 employee records using t-tests, ANOVA, OLS, Ridge, Lasso, GLM and PCA; independently cross-verified key results in R and Python. Mediation analysis estimated a 67.6% mediated effect, validated with bootstrapped confidence intervals. Bayesian cost-sensitive classification reduced expected misclassification cost by 38% versus a naive baseline. Reviewed 19 peer-reviewed sources and produced a six-stage early-warning framework.

Brazilian E-Commerce Data Warehouse & BI Solution

Processed 1M+ rows and approximately 100K orders from nine source tables. Built a staging-to-loading ETL pipeline and star schema with five dimensions and two fact tables. Added automated validation, integrated two REST APIs, created a logistics data mart and delivered a three-page Power BI dashboard with seven validated business insights. Stack: SQL Server, T-SQL, Python, Power BI and DAX.

Predictive Maintenance Engine

Built a Random Forest model from historical fleet data with preprocessing, feature engineering and model evaluation. Served real-time maintenance predictions through a Flask REST API integrated with a MEAN-stack logistics platform.

Sentiment Analysis ML Model

Developed an XGBoost sentiment classifier using NLP preprocessing and TF-IDF, with hyperparameter tuning and model evaluation.

TECHNICAL TOOLKIT

Programming: Python, R, Java, JavaScript, TypeScript. **ML:** Scikit-learn, XGBoost, Random Forest, Pandas, NumPy. **Data & BI:** Power BI, DAX, T-SQL, ETL, dimensional modelling, data marts. **Backend:** Flask, Spring Boot, Node.js, Express.js, REST APIs. **Databases:** SQL Server, PostgreSQL, MongoDB, Neo4j. **Development:** Git, GitHub, Excel.

CERTIFICATIONS

Neo4j Certified Professional (2024) | Neo4j Graph Data Science Certification (2024)