# AJANIYA KAMALANTHAN

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## ABOUT ME

Data Science undergraduate specializing in machine learning with hands-on experience in building predictive models, NLP-based applications, and deploying ML solutions. Proficient in Python, Scikit-learn, TensorFlow, and model evaluation techniques. Strong interest in applying AI and ML algorithms to solve real-world problems and eager to gain industry exposure through an AI/ML internship.

## EDUCATION

**BSc (Hons) in Information Technology** 2023 – Present

*Sri Lanka Institute of Information Technology (SLIIT)*

- BSc (Hons) in Information Technology Specialising in Data Science
- CGPA-2.95
- I Completed the Higher Diploma in Information Technology

## SKILLS

**Programming & Query Languages**

- Python, SQL, R, JavaScript

**Machine Learning & AI**

- Supervised & Unsupervised Learning, Regression, Classification, Random Forest, Feature Engineering, Model Training & Evaluation, Natural Language Processing (NLP – basics)

**Frameworks & Libraries**

- Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, Flask, Streamlit

**Tools & Platforms**

- Power BI, AWS, PyCharm, R Studio, Excel, Visual Studio Code, Jupyter Notebook, Google Colab

**Databases**

- MySQL, PostgreSQL, SQLite, MongoDB

## PROJECTS

**Password Safety Al 2025**

- Developed a machine learning–based password safety system using NLP techniques to classify passwords as weak, strong, or compromised
- Implemented real-time password strength evaluation and breach checks using Python and Flask to enhance user security awareness.

**CO2 Emission Prediction By Vehicles 2025**

- Built regression-based machine learning models to predict vehicle $CO_2$ emissions using feature engineering and data preprocessing techniques.
- Evaluated model performance and deployed the trained model using Flask and Pickle for real-time predictions.

**Car Resale Price Prediction System 2025**

- Trained a Random Forest regression model to predict used car resale prices based on multiple vehicle attributes.
- Performed feature engineering and model tuning, and deployed the solution using Streamlit with an interactive interface.

**Hotel Management System 2024**

*(MERN Stack - React, Node.js, Express, MongoDB)*

- Integrated basic analytics and data-driven features into a MERN-based hotel management platform.
- Supported backend logic and data handling to improve booking and service workflows.

## CERTIFICATES

Python for Beginners at the University of Moratuwa (CODL)

Machine Learning Pipelines with Azure ML Studio at Coursera

AWS Academy Graduate - AWS Acedemy Cloud Foundations

Create Your First Python Program From UST at Coursera

## REFERENCES

**Mr. Prasanna Sumathipala**, *Senior Lecturer. Data Science Program Coordinator,* SLIIT - Faculty of Computing
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**Mr. S. M. B. Harshanath**, *Lecturer,* SLIIT - Faculty of Computing
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