

# AJANIYA KAMALANTHAN

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📍 No 100,gurugedara, Viharamawatha, Kothalawala, Kaduwela

LinkedIn <https://www.linkedin.com/in/ajaniyakamalanathan> GitHub [github.com/AjaniyaSri](https://github.com/AjaniyaSri)

## ABOUT ME

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A self-motivated, adaptable team player, hardworking and enthusiastic IT undergraduate passionate about **BSc (Hons) in Information Technology Specialising in Data Science**. I possess strong interpersonal skills and resilience to work long hours in challenging corporate environments and contribute towards the achievement of a common goal. I am eager to be challenged in order to grow and further improve my professional skills.

## EDUCATION

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### **BSc (Hons) in Information Technology,**

2023 – Present

*Sri Lanka Institute of Information Technology (SLIIT)*  
(Student Ref No - IT23158740)

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

### **G.C.E. Advanced Level – Physical Science Stream,**

2021(2022)

*BT/Valaichenai Hindu college*

**Subjects:** Combined Maths - C, Physics - C, Chemistry - C

## PROJECTS

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### **CO2 Emission Prediction By Vehicles 2025**

Machine Learning developer skilled in predictive analytics and model deployment. Built a CO2 Emission Prediction system for vehicles, applying regression algorithms, feature engineering, and dataset preprocessing to estimate emissions accurately. Deployed the model with pickle integration and designed a user-friendly interface for real-time predictions.<https://github.com/sajivanK/vehicle-co2-emission-predictor>

### **Password Safety AI 2025**

Built a Password Safety AI system using machine learning and NLP techniques to detect weak, strong, and compromised passwords. Developed in Python with Flask, integrating real-time strength evaluation, breach checks, and user-friendly feedback to enhance security awareness.<https://github.com/sajivanK/password-safety-ai>

### **Energy Based Model 2025**

Explored Energy Based Models (EBMs) through a peer-teaching assignment, focusing on their theoretical foundations and practical applications. Implemented EBMs in Python to understand energy functions, inference, and learning mechanisms. Extended the work by proposing a potential research direction, applying EBMs to real-world scenarios for robust representation learning.

### **Hotel Management System 2024 (MERN Stack – React, Node.js, Express, MongoDB)**

Developed a customer-side hotel booking system and admin-side Booking management and Event Management and Additional Services Management platform.

## **SKILLS**

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Data Modeling, Data Mining, Machine Learning, Deep Learning, Data Visualization, Natural Language Processing, Data Analysis, Microsoft Outlook, Data manipulation, Data security, Data warehouse concepts (ETL), Syntax and semantic analysis, Model Training, feature Extracting, Flask api, django, Machine Learning, Fine tuning

### **DATA BASES**

- SQL Server (PL-SQL), MySQL, Oracle (ORDB), SQLite, SQL Server, PostgreSQL, SQL

### **LANGUAGE & FRAMEWORK**

- Python, JavaScript, R, Spark, Tensorflow, PyTorch, Keras & Spark MLLib

### **TOOLS**

- Power BI, SSRS, SSDT, SSIS, VS Code, AWS, Azure, Hadoop, PyCharm, R Studio, Excel Visual Studio code, Jupyter note book, Google Collab

### **SOFT SKILLS**

- Good communication, TeamWork, Leadership, Problem solving, Flexible, Fast Learning, Logical Thinking, Time Management, Collaboratively, Multitasking, Analytic translator

## **CERTIFICATES**

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- Python for Beginners at the University of Moratuwa (CODL)
- Machine Learning Pipelines with Azure ML Studio at Coursera
- AWS Academy Graduate - AWS Academy Cloud Foundations
- Create Your First Python Program From UST at Coursera

## **REFERENCES**

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**Miss. Archchana Kugathasan**, Lecturer, Sri Lanka Institute of Information Technology  
archchana.k@sliit.lk, 0117543998

**Mr. Prasanna Sumathipala**, Senior Lecturer. Data Science Program Coordinator, SLIIT - Faculty of Computing  
prasanna.s@sliit.lk, 0714705502

## **DECLARATION**

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I hereby declare that the above particulars are true and accurate to the best of my knowledge and in the event of chosen, shall endeavor to carry out my duties to the best of my abilities.



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**Ajaniya Kamalanathan**