

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

AI Interview Assistant (RAG-based) 2026 🔗

- Developed a **RAG** system using **sentence-transformer embeddings** to generate interview questions based on resume and job description context.
- Implemented **vector-based retrieval and structured evaluation metrics** to assess answers for relevance, clarity,.

Intelligent Sri Lanka IRD Tax Intelligence & Compliance Assistant 2026 🔗

- Built a **RAG-based AI assistant** to answer Sri Lanka IRD tax queries strictly from official PDF documents using embeddings and semantic search.
- Implemented citation-backed responses with **FastAPI and Streamlit**, ensuring accurate and hallucination-free outputs.

CO2 Emission Prediction By Vehicles 2025 🔗

- Built and evaluated **regression-based machine learning models** to predict value using feature engineering and data preprocessing techniques.
- Deployed the trained model using **Streamlit** to enable real-time emission predictions.

Password Safety AI 2025 🔗

- Developed an **ML and NLP-based password safety system** to classify passwords as weak, strong, or compromised.
- Implemented real-time password evaluation using **Python and Flask** to improve user security awareness.

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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