# GIHAN LAKMAL

## AI Enthusiast | Computer Science Undergraduate Sp in Artificial intelligence

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## ABOUT

As a Computer Science undergraduate specializing in Artificial Intelligence, I aim to apply my skills in machine learning, time-series forecasting, and AI applications. Experienced in developing AI models and deploying web apps, I am proficient in Python, ARIMA, and SARIMAX for predictive analytics. I enjoy problem-solving, collaboration, and am eager to deepen my expertise in AI, deep learning, and data-driven decision-making. I seek an internship to contribute to impactful AI projects while growing my skills.

## EDUCATION

**University of Kelaniya - Sri Lanka**          **(2022-2026)**
B. Sc. (Hons) Computer Science (AI Specialization) (Third Year | Second Semester)

**Nalanda College, Colombo 10**
G.C.E. Advanced Level 2020 Physical Science Stream
Combined Mathematics, Physics, Chemistry
**Z: 1.563**

## PROJECTS

1. **Medical Drug Sales Prediction based on Specific areas in SriLanka (July 2024 – dec 2024)**  github
   My First Research paper published by IEEE. Developed a medical drug sales prediction system for specific areas in Sri Lanka using Python, Time Series Models (ARIMA, SARIMAX), and deployed a public website. This project was accepted for the **International Research Conference on Smart Computing and System Engineering 2025.**

2. **Songs Recommendation system Based on Emotion and Melody**  github
   Developed a machine learning and AI-based system to predict songs based on user emotions and melodies, offering a personalized music experience. Unlike traditional streaming platforms that focus only on genre-based recommendations, this system analyzes user emotions and melody preferences to provide highly relevant song suggestions. The project was selected for the final 10 in the Intellihack AI Hackathon, organized by UCSC.

3. **Machine Learning Individual Projects**  github
   Developed various beginner machine learning projects using models such as KNN, Logistic Regression, Random Forest, and Linear Regression. Notable projects include Classification Using KNN for classification tasks, Digits Prediction and Digits Predicting for image-based predictions, HR Classifier for employee attrition prediction, and Heart Prediction for predicting heart disease. I also worked on Spam Messages Classification to identify spam messages, Wine Classification for predicting wine quality, and Apple Stock Prediction using time-series data. These projects utilized Python libraries such as Scikit-learn, Pandas, NumPy, and Seaborn for data analysis and model development.

4. **Tensor-flow Individual Projects**  github
   Worked on beginner-level AI projects using TensorFlow, Keras, and Python libraries like Pandas, Numpy, Seaborn, and Scikit-learn to build and implement machine learning models. These projects helped enhance my understanding of AI concepts and hands-on experience with deep learning models

## SKILLS

**Programming languages:**
Python, Java, JavaScript, C, C#

**Tools:**
MySQL, PL/SQL , MS SQL, Jupyter Notebooks,  Github, anaconda enviroment , VScode

**Software Development:**
OOP, Data Structures, Algorithms

**Technologies:**
SQL , NumPy, Pandas, TensorFlow, Keras, Scikit-learn, Seaborn, Python, Flask, ARIMA, SARIMAX

**Web Development:**
 HTML, CSS , JavaScript

**AI & Data Science:**
ML (Supervised/Unsupervised), NLP (Text Processing) , Gen AI

**Concepts:**
Data Analysis, Data Visualization, Machine Learning, Deep Learning, Time-Series Forecasting, Predictive Modeling, Natural Language Processing (NLP), AI, Probability, Statistics, Data Preprocessing, Feature Engineering, Python Programming, ARIMA, SARIMAX , DVC , MLFlow , Docker , Grafana and promotheus , MLOps

# EXTRA - CURRICULAR

### AI Research Assistant Intern  (November 2024 - January 2025)

Worked on AI projects focusing on building generative AI models for Sri Lankan native languages, including Sinhala and Tamil. Our team collected a corpus of 40 million Tamil and Sinhala words, contributing to language model development. I gained hands-on experience in data analysis and preprocessing, enhancing the models' accuracy and relevance for native speakers. The project involved generative AI, computer vision, and audio generation, applying real-life data for improved solutions.

### University of Kelaniya Tennis Team Member  (June 2023 - Present)

As a member of the University of Kelaniya Tennis Team, I competed in regional and national tournaments over two years. I led the team to victory in the Inter-Faculty Tournament and helped secure the Runner-Up position in the 2023 Inter-University Tournament. These experiences enhanced my teamwork, leadership, discipline, and focus under pressure, which I apply in both my academic and professional life.

### Computer Science Students Association in University Of Kelaniya  ( July 2021 - Present )

**Committee Member**
Active Committee Member in the Computer Science Students Association (CSSA) since July 2021, contributing to various initiatives and events to enhance the student experience

### AIESEC in University of Kelaniya   (September 2023 - July 2024)

**Customer Experience Manager ( February 2024 - July 2024 )**

Led the Incoming Global Volunteer team to successfully execute projects and deliver results, fostering collaboration and driving performance while actively contributed to leadership and project development within AIESEC,an international  youth organization focused on developing leadership potential in young people.
Engaged in various team projects, collaborating with students from diverse cultural backgrounds.,delivered successful projects by balancing team dynamics and implementing strategies for effective project execution and enhanced cross-cultural communication and teamwork skills through interactions with international peers.

**Customer Experience Co - Ordinator ( September 2023- January 2024 )**
Coordinated customer experience initiatives, ensuring smooth interactions and satisfaction while supporting the delivery of high-quality service, directly interacting with foreign students. and provided hospitality and support, fostering a collaborative and welcoming team environment.

### Rotaract Club in University of Kelaniya

**Organizing Committee Member VANGUARD ( March 2023 - May 2023 )**
Contributed to the planning and execution of key event activities as an Organizing Committee Member, ensuring smooth operations and successful outcomes.

# LANGUAGES

- English (Fluent)
- Sinhala (Native)
- Tamil    (Fluent)

# REFERENCES

**Dr. Rasika Rajapaksha**
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