

Sasan Dilantha

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Who am I

I'm a highly motivated BSc (Hons) Computer Science & Technology undergraduate at Uva Wellassa University of Sri Lanka, passionate about building intelligent and scalable systems. With **hands-on experience in AI/ML**, Full Stack Development, DevOps, and Mobile App Development using Expo & Flutter, I thrive in dynamic, collaborative environments guided by Agile methodologies. My curiosity drives me to explore innovative IoT applications, and my leadership roles in IEEE and FOSS communities have strengthened my teamwork and problem-solving skills.

Education

UG	BSc(Hons) Computer Science & Technology , Uva Wellassa University of Sri Lanka.	Sept 2021 – PRESENT
	<ul style="list-style-type: none">Cumulative GPA: 3.48	
	Diploma in Information Technology , Wayamba University of Sri Lanka.	2019 – 2020
	<ul style="list-style-type: none">Coursework: .NET, PHP	

Projects

AI/ML Projects :

Mapping Sugarcane Growth Stages Using Unmanned Aerial Vehicle (UAV) Based Multi-spectral: A Case Study in Sri Lanka	Ongoing Research Project
<ul style="list-style-type: none">Tools Used: Python, Scikit-learn, TensorFlow OpenDroneMap, QGIS, GDL, PyQt DJI Phantom 4 Multispectral	
Cat and Dog Image Classification Model (SVM)	Project repo
<ul style="list-style-type: none">A project focused on building an image classification model to distinguish between cat and dog images using Support Vector Machine (SVM). Implemented feature extraction, preprocessing, and classification pipeline for accurate model predictions.Tools Used: Python, Scikit-learn, NumPy, Pandas, OpenCV	
VoltSync	Project repo
<ul style="list-style-type: none">VoltSync, a Top 10 innovation at Innovate with Ballerina 2024 by IEEE and WSO2, predicts power shortages using LSTM models and suggests solutions.Tools Used: Front-end: React, Vite Backend: Ballerina, MySQL API: Flask for communication with ML models ML Models: LSTM-based prediction, operational datasets	
AI Voice Assistant Mobile App	Project repo
<ul style="list-style-type: none">A mobile app leveraging OpenAI API to provide intelligent voice assistant capabilities, built using React Native and Expo. The app allows seamless voice-based interactions for answering queries and performing tasks.Tools Used: React Native, Expo, OpenAI API.	
nano-GPT	Project repo
<ul style="list-style-type: none">A project focused on understanding and implementing Transformer architectures, leveraging PyTorch for model development and Google Colab for experimentation	

and training.

- **Tools Used:** PyTorch, Google Colab

Other Projects :

Poultry Farm System (PMS)

- A microservices-based poultry farm management app with IoT integration and a React Native interface for real-time monitoring
- **Tools Used:** Spring Boot, MySQL, Kafka | Flask, MongoDB | ESP32 | Expo

[Project repo - backend](#)

[Project repo - frontend](#)

Skills

Programming: Python, Java, C/C++, PHP, React, Spring Boot, Django, Flask, Spring, Expo, Flutter

Other: TensorFlow, PyTorch, Scikit-Learn, LangChain, LangGraph, OpenCV, Apache Kafka, PyQt, MySQL, MongoDB

Certifications

Artificial Intelligence in Embedded Systems

Oct 2024

University of Moratuwa

AI/ML Engineer - Stage 1 and 2

Jun 2022 | Feb 2024

SLIIT | Sri Lanka Institute of Information Technology

Awards & Competitions

Top 10 Best Innovations in the Innovate with Ballerina

2024

Organized by the IEEE Student Branch, University of Moratuwa, in collaboration with WSO2

IEEEExtreme

2023, 2022, 2021

Organized and managed by the IEEEExtreme Executive Committee

Google Hash Code

2022

Organized by Google

Soft Skills

💡 Problem Solving

🧠 Critical Thinking

🔄 Adaptability & Flexibility

📅 Project Planning & Management

👥 Teamwork & Collaboration

🗣️ Leadership & Communication

Leadership & Extra curricular Activities

Club Lead, FOSS Community - UWU

Jun 2024 - PRESENT

Chairperson, IEEE Industry Applications Society

Jan 2024 - PRESENT

Team Member, University SLUG Cricket Team

2023/2024

Program Team Member, LET's Talk Project

Mar 2023 - Jan2024

IEEE Young Professionals, Sri Lanka

References

Mr. W. A. Sanjeewa

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