Sasan Dilantha
INTERN - AI/ML ENGINEER

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📍 **NO.2, Raja Mawatha,**
Pahala Haththiniya,
Marawila.

https://github.com/SasanDilantha

https://github.com/SasanDilanthaSTD

EDUCATION

Undergraduate in BSc(Hons) Computer Science & Technology

Uva Wellassa University of Sri Lanka
Cumulative GPA – 3.43

2021 - PRESENT

Diploma in Information Technology

Wayamba University of Sri Lanka

2019 - 2020

GCE A/L Examination

St. Joseph Vaz College, Wennappuwa

2015 - 2018

SKILLS

Programming Languages

- Java, Python, C/C++, Kotlin, PHP

Web & Mobile Development

- React, React-Native, Vite, Android Studio, HTML, CSS, JavaScript

Backend Frameworks

- Spring Boot, Spring, Hibernate, Django, Flask

DevOps Tools

- GitHub actions, Docker and Kubernetes (basic knowledge)

Version Control

- Git, GitHub

ABOUT ME

I am a highly motivated undergraduate student pursuing a degree in Computer Science and Technology at Uva Wellassa University of Sri Lanka, with a keen focus on Artificial Intelligence and Machine Learning. As the Chairperson of the IEEE IAS Chapter at UWU and the Club Lead of the FOSS Community - UWU, I have cultivated strong leadership and collaborative skills, driving initiatives that bridge academia and cutting-edge technology.

My passion for AI/ML fuels my enthusiasm to explore and implement innovative solutions to real-world problems, with a commitment to continuous learning in this rapidly evolving field. Outside of academics, I balance my professional interests with my love for cricket, fostering discipline, teamwork, and resilience traits I bring to every project and challenge.

CERTIFICATIONS

Artificial Intelligence in Embedded Systems
University of Moratuwa
Oct 2024

AI/ML Engineer - Stage 2
SLIIT | Sri Lanka Institute of Information Technology
Feb 2024

AI/ML Engineer - Stage 1
SLIIT | Sri Lanka Institute of Information Technology
Jun 2022

RESEARCH & PROJECTS

Mapping Sugarcane Growth Stages Using Unmanned Aerial Vehicle (UAV) Based Multispectral and Thermal Imaging: A Case Study in Sri Lanka

Ongoing Reserch Project

AI Voice Assistant Mobile App

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.

Technologies: React Native, Expo, OpenAI API.

Databases
- MySQL, MongoDB

AI/ML
- TensorFlow, PyTorch, Scikit-Learn

IoT
- ESP32, Arduino, PIC microcontrollers

Other
- OpenCV, Apache Kafka

SOFT SKILLS
- **Team work**
- **Problem solving**
- **Team Leadership**
- **Adaptability & Flexibility**
- **Project Planning & Handaling**

LANGUAGES
- **SINHALA**
- **ENGLISH**

INTEREST
- **AI/ML Engineering**
- **Software Engineering**
- **DevOps**
- **Full Stack Development**

REFERENCES

Mr. W.A Sanjeewa
Lecturer, Uva Wellassa University of Sri lanka.
Phone: +94 71 486 4798
Email: aruna.s@uwu.ac.lk

Mr. Sudaraka Senevirathne
Community Lead, FOSS Srilanka
Phone: +94 71 300 9095
Email: sudharakafb@gmail.com

Poultry Farm System (PMS)

A microservices-based poultry farm management app with IoT integration and a React Native interface for real-time monitoring

Technologies: Backend: Spring Boot (Java), MySQL, Apache Kafka | IoT Server: Flask (Python), MongoDB | IoT Device: ESP32 programmed with C++ | Frontend: React Native

VoltSync

VoltSync, a Top 10 innovation at Innovate with Ballerina 2024 by IEEE and WSO2, predicts power shortages using LSTM models and suggests solutions.

Technologies: Frontend: React, Vite | Backend: Ballerina, MySQL | API: Flask for communication with ML models | ML Models: LSTM-based prediction, operational datasets

nano-GPT

A project focused on understanding and implementing Transformer architectures, leveraging PyTorch for model development and Google Colab for experimentation and training.

Technologies: PyTorch, Google Colab

End to End ML Project

A learning project focused on building an end-to-end machine learning pipeline, covering data collection, preprocessing, model training, evaluation, and deployment. The project involved implementing ML models and deploying them as a web application for real-world use.

Technologies: Pandas, NumPy, Matplotlib, Statsmodels, joblib, python-box, pyYAML, types-PyYAML, Flask, Flask-Cors

LEARDERSHIP & EXTRA-CURRULAR ACTIVITES

Club Lead, FOSS Community - UWU Uva Wellassa University	Jun 2024 - PRESENT
Chairperson, IEEE Industry Applications Society Uva Wellassa University Student Branch Chapter	Jan 2024 - PRESENT
Program Team Member, LET's Talk Project IEEE Young Professionals, Sri Lanka	Mar 2023 - Jan2024
Web Team Lead, IEEE Open Day Project IEEE Uva Wellassa University Student Branch	Apr 2023 - Jun 2023
Team Member, University SLUG Cricket Team Represented Uva Wellassa University in inter-university cricket competitions	2023/2024
Program Team Member, Sihinayata Athwelak Project IEEE Uva Wellassa University Student Branch	Oct 2022 - Jan 2023
Design Team Member, SHECODERess <V 5.0> Project Women in Engineering Affinity Group, IEEE UWU SB	Aug 2022 - Sep2023

AWARDS AND COMPETITIONS

Top 10 Best Innovations in the Innovate with Ballerina Organized by the IEEE Student Branch University of Moratuwa in collaboration with WSO2	2024
IEEEXtreme organized and managed by the IEEEXtreme Executive Committee	2023,2022, 2021
Google Hash Code Organized by Google	2022