



THITHIRA PARANAWITHANA

Computer Engineering Undergraduate
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EDUCATION

University of Sri Jayewardenepura, Sri Lanka

March 2021 - Present

B. Sc (Hons) in Computer Engineering (Minor in Data Management)

- CGPA: 3.67/4.0
- OOP, Data Structures and Algorithms, Software Engineering, DBMS, Data Mining, Computer Security, Natural Language Processing, Quality Engineering, Cloud Computing, Machine Learning

Bandaranayake College Gampaha

2011 - 2019

G.C.E. Advance Level Examination - 2019 (Physical Science Stream) - Z score:1.9884

Courses:

Problem Solving - Basic (HackerRank)
Machine Learning Specialization - Stanford (Coursera)
Introduction to Machine Learning (Kaggle)
Programming in Python (open.uom.lk)
TensorFlow Developer Certificate Bootcamp - Zero To Mastery (Following)

SKILLS

Languages: English (professional proficiency), Sinhala (native proficiency)

Programming Languages: C++, Python, Java, JavaScript, SQL

Deep Learning Frameworks: TensorFlow

Machine Learning: Classification, Regression, Neural Networks, TensorFlow

Mobile App Development: Flutter

Web App Development: HTML, CSS, JavaScript

Development tools: VS Code, PyCharm, Google Colab, Jupyter Notebook, Android Studio

Testing and other tools: Selenium IDE, Cisco Packet Tracer, Weka

PROJECTS

CuddleCam

Jun. 2023 - Sep. 2023

Python, OpenCV, TensorFlow, Neural Networks, Computer Vision, MediaPipe, Flask, Flutter

- * A portable and automated baby monitoring system which uses emotion detection and pose detection to notify the parents through a mobile app whenever a risky situation occurs.

inPath

Jan. 2023 - Apr. 2023

Machine Learning, Gradient Boosting Classifier, Python, HTML, CSS, JS

- * Exam process automating and learning management system which consists of a web app and a mobile app. Additionally, students are recommended a suitable department based on the exam results.

SafeLabs

Ongoing

Computer Vision, Deep Learning, Python, OpenCV, MySQL, HTML, CSS, JS

- * User access authentication system for a chemical laboratory using face recognition and object detection which also maintains user and equipment records.

Heart Disease Prediction

Dec. 2023

Machine Learning, Classification, Scikit-learn, Pandas

- * Predict the likelihood of heart disease in patients based on various medical factors using classification. An accuracy score of 0.84 was obtained for the developed logistic regression model.

LearnLounge

Jun. 2023 - Sep. 2023

OpenCV, TensorFlow, MediaPipe, Flutter, GCP, ZegoCloud API

- * A cloud-based virtual learning platform which incorporates hand gesture recognition.

Library Management System

Oct. 2022 - Nov. 2022

C++, Object Orient Programming

- * A console-based library management system demonstrating strong application of Object Orient Programming principles.

Bowling Game

Nov. 2021 - Dec. 2021

C++

- * A console-based, fully functional bowling game which uses basic principles of C++ language.

Gender and Age Prediction

Apr. 2024

TensorFlow, CNN, Classification, Regression, Python, NumPy

- * CNN model trained to predict gender and age from facial images. The model outputs two predictions simultaneously: gender (binary classification) and age (regression).

EXPERIENCE & ACHIEVEMENTS

Computer Engineering Society (CENSOC) - University of Sri Jayewardenepura

Committee Member

ENIGMA - Engineering Exhibition - University of Sri Jayewardenepura

Event Handling Team

Rotaract Club - University of Sri Jayewardenepura

Sports & Recreational Activities Avenue

Science Society - Bandaranayake College

Committee Member

CodeSquad 3.0 (Coding Competition) - University of Sri Jayewardenepura

Compete in the preliminary round

MoraExtreme (Coding Competition) - University of Moratuwa

Compete in the preliminary round

Carrom Team - Bandaranayake College

REFERENCES

Dr. Sampath Edirisinghe

Senior Lecturer

Bsc. Eng Hons (Peradeniya), PhD (Melborne)

Department of Computer Engineering

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Ms. Akarshani Amarasinghe

Lecturer

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