

CHANDRESEKARAN VIDUSHRAJ

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PROJECTS

Project 1

Precision agriculture method for Tea plantation in Sri Lanka.

July 2019 - November 2019

ESP8266 NodeMCU | PHP | MySQL | HTML

- Proposed a design of a drip irrigation system for tea plantation & Developed a web application to store and visualize the sensor readings.

Project 2

A web application to predict Blister blight disease occurrence.

July 2019 - October 2019

Support Vector Machine | K-Nearest Neighbor | Flask | HTML | CSS

- Gathered relevant data from Nayapana tea estate and developed a machine learning model to predict blister blight disease occurrence and deployed that model into a web application.

Project 3

Developed a web application to classify tomato leaf diseases.

July 2019 - October 2019

TensorFlow | Keras | VGG-16 | Flask | HTML | CSS

- Developed a deep learning model using a transfer learning method to classify seven different diseases in tomato leaf and deployed that model into a web application.

Project 4

Real-time object detection using TensorFlow.

July 2019 - August 2019

TensorFlow | SSD

Project 5

Real-time human face recognition using Raspberry pi.

March 2019 - May 2019

Raspberry pi 3b+ | OpenCV

Project 6

Mobile Phone Detector Circuit

November 2019 - December 2019

Eagle Cad

PROFILE

Dedicated individual with great attention to detail and exceptional analytical and technical skills looking to implement AI solutions for the betterment of society.

WORK EXPERIENCE

Temporary Instructor

Faculty of Engineering, South Eastern University of Sri Lanka

03/2020 - present Oluvil, Sri Lanka

- Working as an instructor in Department of Computer Science and Engineering.

Electronic Engineer Intern

Vega Innovations

11/2018 - 02/2019 Colombo-10, Sri Lanka

- Worked under senior electrical engineers to design and test battery management system of Vega electric super car and electric mini cooper.
- Designed printed circuit board.

Electrical Engineer Intern

Lanka Electricity Company Private Limited

03/2017 - 06/2017 Colombo-03, Sri Lanka

- Understand the plan layout of electric power distribution lines and stations under LECO.
- Confer with engineers, customers, or others to discuss existing or potential engineering projects or products.
- Learnt from equipment operators on the proper use of power system equipment.

EDUCATION

B.Sc. in Electrical and Electronic Engineering

South Eastern University of Sri Lanka

02/2015 - 02/2020

Cumulative GPA - 3.31 (Upto 7th semester)

Project 7

Temperature controlled DC Fan

📅 April 2018 - June 2018

- Temperature controlled DC fan can cool electronic devices by operating a DC fan when the temperature in its vicinity increases above the preset level. Its operation is fully automatic and turns off when the temperature returns normal.

Project 8

Obstacle Avoiding Robot

📅 March 2017 - June 2017

- Developed an arduino based robot to avoid collisions using ultra sonic sensors.

MODULES

- Introduction to Computing
- Computer Architecture
- Operating System
- Data Structures and Algorithms

PROFESSIONAL CERTIFICATIONS

- Cisco Certified Network Associate - CSC013300821
Routing and Switching

EXTRA CURRICULAR

Sports

- Participated in Table Tennis in Sri Lanka University Games - 2016.
- Participated in Chess in District level.

Membership

- Student Membership - Institute of Engineers Sri Lanka (IESL) (2017 - present)
- Member of EEE society in SEUSL.

REFEREES

Dr. Keerthi Gunawickrama

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✉ Senior Lecturer,
Department of Electrical and Information Engineering,
Faculty of Engineering,
University of Ruhuna, Galle.

Dr. W.G.C.W. Kumara (Chinthaka)

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☎ 071-6425358

✉ Senior Lecturer (Grade II) Acting Head,
Department of Computer Science and Engineering,
Faculty of Engineering,
South Eastern University of Sri Lanka (SEUSL), Oluvil.

TECHNICAL SKILLS

Programming Language

- Python.

Database

- MySQL.

Data Visualization Tool

- Tableau.

Python Packages

- Numpy, Pandas, Matplotlib, Seaborn, SciKit-Learn, Beautiful Soup, OpenCV.

Machine Learning

- Linear Regression, Logistic Regression, K-Nearest Neighbor, Naïve Bayes, K-Means Clustering, Support Vector Machine, Decision Trees and Random Forest.

Deep Learning

- Convolution Neural Network, Recurrent Neural Network, Long Short Term Memory Network.

Web Framework

- Flask.

Deep Learning Framework

- TensorFlow, Keras, PyTorch.

Operating System

- Windows, Ubuntu

Hardware

- Arduino, Raspberry Pi

IDEs

- Jupyter Notebook, Visual Studio

Networking Tools

- Cisco Packet Tracer, GNS3, Wireshark, Putty

KEY SKILLS

Data Analysis

Data Visualization

Data Cleaning & Manipulation

Predictive Modeling & Analysis

Mathematics

Statistics

Statistical Analysis

LANGUAGES

Tamil

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English

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Sinhala

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