



SANTHOSH H S

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[github](#)

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[portfolio](#)

OBJECTIVE

Build a long term career in a conducive and progressive organization environment which provides wider exposure for continuous learning process with ample opportunities for future career growth. To use my skills and techniques in the best possible way for achieving the company's goals and increases its profitability and growth.

EDUCATION

NATIONAL INSTITUTE OF ENGINEERING (VTU)

2018-2022

B.E IN ELECTRONICS AND COMMUNICATION ENGINEERING

- 9.5 CGPA (till 5 sem)

SADVIDYA PU COLLEGE (KAR PU BOARD)

2016-2018

SCIENCE

- 95.33%

SKILLS

PROGRAMMING LANGUAGES

Python | C++ | C

WEB DEVELOPMENT

Basic HTML Scripting | Basic CSS | Basic Java Script

MACHINE LEARNING FRAMEWORKS & LIBRARIES

Google Colab | Numpy | Pandas | Scikit-learn | Tensorflow | Keras

DATA VISUALIZATION LIBRARIES

Matplotlib | Seaborn

DATABASE

MySQL

ADDITIONAL SKILLS

Computer Network | OOPS | OS | Data Structures and Algorithm

ELECTRONICS CORE

Analog Electronics | Digital System Design | Verilog | IOT

SOFT SKILLS

Self Motivated | Problem Solving | Good Listening

Integrity and Responsibility | Adaptable | Flexible | Empathetic

PROJECTS

DEEP NEURAL NETWORK ALGORITHM FOR DETECTING COVID-19 FROM CT SCAN IMAGE

- Deep learning has dramatically increased the state of the art in Speech, Vision and many other areas. The aim of our project comprises of the high speed, accurate and fully automated method to detect COVID-19 from the patient's CT scan images. This project will make use of the Convolution Neural Network Algorithm to train the model from the collected dataset which classifies the CT scan images into Covid and Non-Covid through categorical cross-entropy loss function, Adam Optimized Gradient Descent and Backpropagation.

CREDIT CARD FRAUDULENT TRANSACTION CLASSIFYING MODEL

SEP 2020

- The Objective is to predict the credit card transaction as fraudulent or not. The model is trained using Sequential Dense Neural Network algorithm with prerequisite data cleaning of the dataset using numpy, pandas and corresponding data visualization using matplotlib library. It yields 99.6% accuracy which is more compared to Logistic Regression, Random Forest Classification algorithm.

IOT BASED GLUCOSE DRIP MONITORING SYSTEM

JUNE-JULY 2021

- This project work involves monitoring the saline(drip) bottles in hospitals. This framework comprises of Node mcu i.e ATmega328p controller with esp8266 WIFI module, Load Cell, HX711 Amplifier. With consideration to the difficulty faced by the patients and the nurses on the completion of the saline (drips) bottle, this project will make use of the load cell and the amplifier to convert the weight to voltage to measure the remaining of the saline bottle. Indication and alert will be made at the android application through a message sent using a WIFI module(esp8266) to all the nurses at duty.

CALCULATOR WEBPAGE

- It is a web development project in which a webpage having frontend calculator display is built using HTML, CSS grid property and it computes basic mathematical operations such as addition, subtraction, multiplication, division using backend Javascript code implemented using onclick event listener and "eval" function.

50 DIFFERENT SPECIES OF BUTTERFLY IMAGE CLASSIFICATION MODEL

NOV-DEC 2020

- The Objective is to predict the butterfly species from the color image which was implemented by Convolution Neural Network algorithm.

REAL TIME FACE DETECTION USING OPENCV

OCT

- Implemented using haarcascade frontall face algorithm, which detects the face pattern and returns the coordinates of a face in the real time video capture.

INTERNSHIP

COSMIC SKILLS

JUN-AUG 2020

INTERN

- Helped in Developing Online Course on AI fields like "Machine Learning and Neural Networks" and did projects on Housing Price Prediction Model, Digit Recognition Model, Fashion MNIST Classification Model, Dog vs Cat Classification Model.

PUBLICATIONS

- Ranjith M S, Santhosh H S, Swamy M S. "Machine Learning Algorithms for the Detection of Diabetes" IRJET Volume 8, Issue 1, January 2021 S.No: 27

LICENSES AND CERTIFICATIONS

CERTIFICATION OF APPRECIATION FOR CODE WARRIORS GAME OF DATA AI CHALLENGE :

SEP 2020

- The aim of the challenge is to classify the color images into different "Food" categories, organized by Dockship.io machine learning Community.

CERTIFICATION OF APPRECIATION FOR BUTTERFLY CLASSIFICATION AI CHALLENGE :

DEC 2020

- The aim of this challenge is to classify the given colored images into 50 categories of butterflies species, organized by Dockship.io machine learning Community.

CERTIFICATION OF APPRECIATION FOR MACHINE LEARNING INDIA AI CHALLENGE :

DEC 2020

- The aim of this challenge is to classify the credit card transaction as fraudulent or not, organized jointly by Machine Learning India and Dockship.io machine learning Community .

CERTIFICATION OF PARTICIPATION :

JAN 2021

- For attending 20 days webinar series on AI Master Class, organized by Andhra Pradesh State Skill Development Corporation and Pantech Prolabs Pvt Ltd.

COURSES

PROGRAMMING FOR EVERYBODY (GETTING STARTED WITH PYTHON) :

JUN 2020

- Coursera Course offered by University Of Michigan

CRASH COURSE ON PYTHON :

SEP 2020

- Coursera Course Offered by Google

E-LEARNING PROGRAM ON MACHINE LEARNING :

May 2020

- by Tata Steel - Capability Development.

HTML ,CSS AND JAVASCRIPT BASICS :

- by Freecodecamp.org

VOLUNTEER EXPERIENCE

- Team member of the "Fun and Learn" organisation
 - Tutored around 5 primary school children of my locality during Covid pandemic
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