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Technical Skills

Programming Languages	➢ Python ➢ C++ ➢ Java
Tools	➢ Pycharm ➢ Visual Studio code ➢ Spyder
Operating Systems	➢ Windows 10 ➢ Linux
Knowledge In Technology	➢ Deep learning ➢ Machine Learning ➢ Object Detection ➢ Data Structures ➢ NLP

Publications:

Maize Leaf Disease Detection and Classification Using Deep Learning: This project is a book chapter is the book "Artificial Intelligence in Mechanical and Industrial Engineering". The project is aims to build to a system which can classify different maize leaf diseases. The project is done using deep learning-based transfer learning technique.

Published In: CRC press, Taylor and Francis.
Publication Link: https://tinyurl.com/Maizeleaf

Publication Status: published.
Chapter No: 6
Publication Status: Published.
Copy of Publication: https://tinyurl.com/copyofpublication

Fire detection based on transfer learning-based single shot detector: This is my primary final-year academic project. The project's goal is to provide a unique technique to detecting fire by utilizing an object detection algorithm Single shot detector (SSD).

Status: In Review

Projects:

VECHICLE DAMAGE DETECTION: This is a classic project illustrating the image localization and instance segmentation, the aim of this project is to develop a system which can identify and localize the damaged places in a car. To resolve traffic accident compensation problems quickly, a vehicle-damage-detection segmentation algorithm based on transfer learning and improved mask regional convolutional neural network (Mask RCNN) is proposed in this project. The experiment first collects car damage pictures for preprocessing and uses Labelme to make data set labels, which are divided into training sets and test sets. The residual network (ResNet) is optimized, and feature extraction is performed in combination with Feature Pyramid Network (FPN).

GitHub: https://github.com/saiprasad1586/Vechile-damagedetection
Realtime Prediction: https://tinyurl.com/realtimepred
Deployed Web App: https://vechicledamagedect.herokuapp.com/

Multi-class texture analysis in Colorectal Cancer histology: This project is the implementation of a research paper published by Jakob Nikolas on 2016 where they used machine learning classifiers to classify in between 8 classes I improved the classification accuracy by 4%, the accuracy mentioned in the paper was 88%, I used convolution neural networks and transfer learning methodology to improve the accuracy by 4%, I used Resnet architecture to improve accuracy.
GitHub: https://github.com/saiprasad1586/Colorectal-Cancer-
Original Paper: https://www.nature.com/articles/srep27988

Real-time Facemask Detection : This project is a real time face mask detection project using Google's media pipe library. The aim of the project is to build a deployment ready application to detect Facemask in a video stream. To reduce the complexity of the project, the application is built on Google's media pipe library. Each and every frame is processed over a custom deep learning Convolutional Neural Network model.

GitHub: https://github.com/saiprasad1586/FaceMaskDetection
Realtime prediction: https://tinyurl.com/MaskRealTime

Classification in between COVID-19 X-rays and Pneumonia: This project is a classification in between COVID-19, Pneumonia and Normal X-rays, in this project I used Transfer Learning based pretrained neural network Resnet50 and managed to get an accuracy of 94%. The data is collected from Kaggle and other GitHub repositories.

GitHub: https://github.com/saiprasad1586/COVID-XRAY-CLASSIFICATION.git

Experience:

Company: Tata Consultancy Services
Role: Assistant Systems Engineer
Experience: June 2021- Present

Academic Profile

Level	Year of Passing	University / Board	Percentage/CGPA
Bachelor of Technology	2021	GITAM Deemed to be University	8.26
Senior Secondary	2017	CBSE	74%
SSC	2015	CBSE	8.2

Extra curriculum/ Co-Curriculum

GLUG (GNU Linux Users Group - I, along with four others, have established a student organization at our university with the goal of encouraging the usage of open-source software with no proprietary code, as well as knowledge for everyone.

Activities Performed:

- Organized Linux awareness programs
- Organized Many knowledge transfer programs
- Organized peer learning programs.

Personal Details

Gender : Male
Date of Birth : 19-Jul-1999
Languages : English, Telugu and Hindi

(GVND Sai Prasad)