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Website: www.saiprasad.tech
GitHub: www.github.com/saiprasad1586
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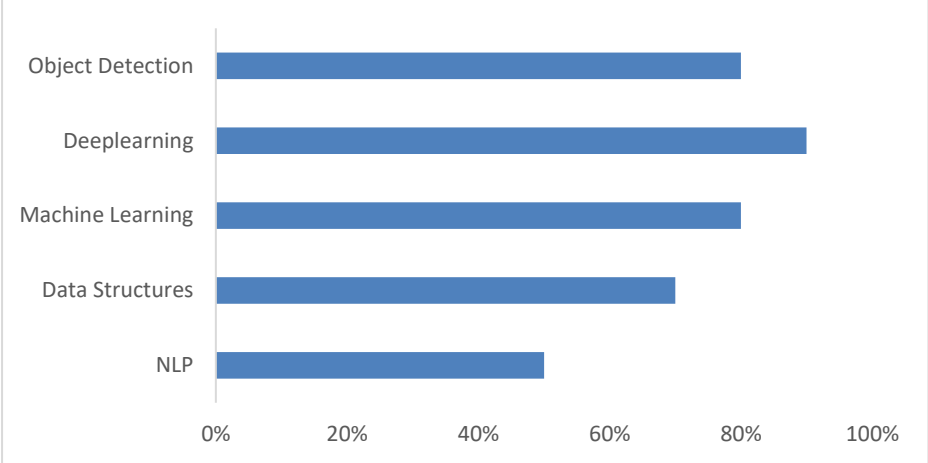
Technical Skills

Operating Systems	• Windows 10 • Linux
Programming Languages	• Python • C++ • Java
Tools	• Pycharm • Visual Studio code • Spyder

Knowledge in Technology



Projects:

VECHICLE DAMAGE DETECTION : Traffic congestion due to vehicular accidents seriously affects normal travel, and accurate and effective mitigating measures and methods must be studied. To resolve traffic accident compensation problems quickly, a vehicle-damage-detection segmentation algorithm based on transfer learning and and improved mask regional convolutional neural network (Mask RCNN) is proposed in this paper. 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). Then, the proportion and threshold of the

Anchor in the region proposal network (RPN) are adjusted. The spatial information of the feature map is preserved by bilinear interpolation in ROIAlign, and different weights are introduced in the loss function for different-scale targets. Finally, the results of self-made dedicated dataset training and testing show that the improved Mask RCNN has better Average Precision (AP) value, detection accuracy and masking accuracy, and improves the efficiency of solving traffic accident compensation problems.

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

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

Academic Profile

Level	Year of Passing	University / Board	Percentage/CGPA
Bachelor of Technology	2021(excepted)	GITAM Deemed to be University	8.09(Till now)
Senior Secondary	2017	CBSE	74%
SSC	2015	CBSE	8.2

Personal Details

Fathers Name	:	G. Sri Hari Babu
Nationality	:	Indian
Gender	:	Male
Date of Birth	:	19-Jul-1999
Languages	:	English, Telugu and Hindi