Sanjana Srinivas

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Education

San Jose State University   *San Jose, CA*

MS IN COMPUTER ENGINEERING, GPA 3.9/4.0   *Present*

PES Institute of Technology   *Bangalore, India*

BE IN ELECTRONICS AND COMMUNICATION, GPA 8.99/10.0   *May 2017*

Skills

Languages   Python, HTML, JavaScript, Bootstrap, CSS, Typescript, C++

Frameworks   Angular, NodeJS, MongoDB, Magento, Avaamo Chatbot, Git, Docker

Coursework   Machine Learning, Data Mining, Introduction to Computer Vision, Deep Learning, Data Structure / Algorithm - C++

Experience

San Jose State University   *San Jose, CA*

RESEARCH ASSISTANT   *July 2020 - PRESENT*

- Working on deploying depth network on edge devices with lower computational and memory footprint for driving assistance using techniques like **quantization** and **neural network introspection**. Datasets used: KITTI and CityScapes. Technology used: ***Pytorch***
- Submitted a report to **ML Reproducibility Challenge** on a **CVPR2020** paper, *Self-supervised Monocular Trained Depth Estimation using Self-attention and Discrete Disparity Volume*. Technology used: ***Pytorch***

Wipro   *Bangalore, India*

FULL STACK DEVELOPER   *Aug. 2017 - Oct. 2019*

- Worked on ideation, wireframing and prototyping a solution for mobile number portability using **Blockchain** technology. Also developed and deployed the user interface for the same. Technologies used: ***Angular 6***
- Developed a POC for Ericsson. Built user interface screens for their Digital Experience Platform. Also integrated the front-end with RESTful web services. Technologies used: ***Angular Material, Angular 4***
- Worked with teams to prototype various web and mobile applications demonstrated at Mobile World Congress 2018 and 2019. Technologies used: ***Angular 4, Ionic, NodeJS***
- Deployed Avaamo **Chatbot** that provides real-time response to user queries regarding status of orders, tickets, customer details and statistics of team's progress. It was deployed internally within Wipro to improve productivity within teams. Technologies used: ***Avaamo***

SOFTWARE ENGINEER INTERN   *Feb. 2017 - Jun. 2017*

- Developed a product using MVC architecture that can be used to purchase mobile recharge plans. Technologies used: ***AngularJS, Magento***

Projects

Face Segmentation

- Implemented deep neural network using **Tensorflow** framework to perform semantic segmentation of different parts of the face using CelebAMask-HQ dataset. Obtained an accuracy of **93.13%** and mIOU of **60.9%** Technologies used: ***Tensorflow, OpenCV***
- Developed end-to-end application using alpha-matting to change lip and hair color. Technologies used: ***ReactJS, NodeJS, TensorflowJS, OpenCV.js***

Grape Disease Detection and Classification

- Implemented various machine learning models - Random Forest, SVM and deep neural networks to detect and classify grape diseases.
- Ensembling schemes of majority voting and stacked prediction was built using the above models.
- Obtained accuracy of **98.23 %** on the test set.Technologies used: ***Python, Scikit-learn, Tensorflow***

Wildfire Analysis and Prediction

- Preprocessed and cleaned the wildfire dataset and merged with the corresponding temperature dataset.
- Predicted the occurrence of wildfire given the temperature and precipitation details of the region using Logistic Regression model. Obtained accuracy of **84.29%**.
- Technologies used: ***Python, Scikit-learn, Matplotlib, t-SNE***

Awards

SJSU   Davidson Scholar Award for the proposed research activities

Wipro   Victory League Recognition - MWC and World IP Day Demos

Skating   Ekalavya Award, ***Highest Sporting Award in the state of Karnataka, India***. ***Participated*** in World Roller Speed Skating Championships, Haining. ***Bronze medal*** in Relay, Asian Ice Skating Championships, Taiwan.