# Sanjana Srinivas

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**Education** 

San Jose State University
San Jose, CA

MS IN COMPUTER ENGINEERING, GPA 3.92/4.00

Dec. 2021

PES Institute of Technology

Bangalore, India

BE IN ELECTRONICS AND COMMUNICATION, GPA 8.99/10.00

May 2017

**Skills** 

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

ML Tools Tensorflow, Pytorch, Matplotlib, Sci-kit, Numpy, Pandas, Seaborn, OpenCV

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

Coursework Machine Learning, Data Mining, Introduction to Computer Vision, Deep Learning, C++, Cloud Computing - AWS

**Experience** 

Juniper Networks Sunnyvale, CA

SOFTWARE ENGINEERING INTERN

June 2021 - Present

Working on time-series forecasting to predict resource utilization in routers and data centers using models like LSTMs, Neural Prophet and Arima.
 Technology used: Tensorflow

San Jose State University
San Jose, CA

RESEARCH ASSISTANT

July 2020 - May 31

• Built monocular depth estimation neural network, reproduced results from popular works like monodepth, monodepth2 and DORN on KITTI and CityScapes datasets. Technology used: **Pytorch** 

Improved runtime performance of neural networks by introspecting neural network weights and activations through channel pruning and 8-bit integer
quantization. Achieved 81% memory compression and 39% improvement in runtime (benchmarked on Intel Core i7-6700K CPU) with negligible drop in
performance. A paper on the above work was accepted at IEEE BigData 2021 conference whose acceptance rate is 19.9%. Technology used: Pytorch

WiproBangalore, IndiaFULL STACK DEVELOPERAug. 2017 - Oct. 2019

• Worked on ideation, wireframing, prototyping, developing and deploying a solution for mobile number portability. Technologies used: Angular 6

• Developed a POC for Ericsson and integrated the their front-end with RESTful web services. Worked with teams to prototype various web and mobile applications demonstrated at Mobile World Congress 2018 and 2019 Technologies used: *Angular 4, Ionic, NodeJS, MongoDB* 

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 & AR Makeup**

- 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.
- Implemented ensembling schemes of bagging and stacked prediction to improve performance.
- Obtained accuracy of 98.23 % on the test set. Technologies used: Python, Scikit-learn, Tensorflow

## **Fashion Recommendation System**

- Built similarity based visual recommendation system using DeepFashion dataset.
- Used pretrained ResNet to generate image embeddings of the gallery set. A nearest neighbor classifier (Annoy) was built using this gallery set with cosine similarity as the distance metric. Technologies used: Pytorch, Fastai, Pandas, Matplotlib, t-SNE

## **Car Rental Application**

- An end-to-end application that enables renting autonomous cars. The multi-tenant application includes booking, payment transactions and history.
   Technologies used: Flask, MySQL
- The application was hosted on AWS with features including auto-scaling and load balancer. Technologies used: AWS Elastic Beanstalk

# 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.