Sanjana Srinivas

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Education

San Jose State University
San Jose, CA

MS IN COMPUTER ENGINEERING, GPA 3.91/4.00

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++

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 NetworksSunnyvale, 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, Hidden Markov 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 layer pruning and 8-bit integer
quantization. Together to achieve 79% memory compression and 38% improvement in runtime performance (benchmarked on Intel Core i7-6700K
CPU) with 4% drop in performance. Submitted a report to Symposium on Edge Computing 2021 on the same. Technology used: Pytorch

WiproBangalore, India

FULL STACK DEVELOPER Aug. 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

Wildfire Analysis and Prediction

- Built a dataset by scraping wildfire and corresponding temperature and precipitation data from Geospatial open data portal and National Weather Service Forecast portal for Washington State.
- 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

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.