# Sudheshna Donthineni

431 El Camino Real, Santa Clara, CA 95050
650-334-6206 sudonthineni@gmail.com LinkedIn


Computer Science and Engineering graduate with a background in Statistics. Focus on Software Engineering and Machine Learning. Combined professional experience of over a year in software development. Interested in

*Backend Development* *Machine Learning* *Big Data* *Database Administration*

## EDUCATION

***Master of Science - Computer Science and Engineering*** June 2018
Santa Clara University, Santa Clara, CA

***Bachelor in Engineering - Computer Science*** June 2016
R.V. College of Engineering, Bengaluru, India

## SKILLS

**Platforms :** Windows, Linux, Ubuntu, Git **Languages :** C++, Python, C, HTML, CSS, SQL, Ruby, MySQL, Java, Javascript
**Webservers and Databases :** Apache, Oracle 11g, PostgreSQL

## PROFESSIONAL EXPERIENCE

***Data Specialist - Marketing Operations ,*** *Trifacta* ***(09/2018 - present)***

- Assist project leaders in analyzing, organizing, sorting and preparing data cleanse files for smoother execution of Trifacta marketing campaigns.
- Aid in the administration of Salesforce.org( CRM tool) and manage technical aspects of Trifacta marketing campaign automation (Marketo)
- Able to work partnered with integration teams such as business functional analysts and database administrators

***Technical Intern,*** *Ingersoll Rand Pvt. Ltd.* ***(01/2016 - 06/2016)***

- Assisted in the development of the UI and application software for a Human-Machine interface on Qt (C++) integrated into a new company product, which released in 2017
- Revised, collaborated and critiqued layout options with the design and mechanical teams to ensure quality and maintainability
- Increased readability and user-interaction efficiency by including modern interactive techniques like widgets, slots and signals

## PROJECTS

***Dog Breed Classifier***

- Built a convolutional neural network (CNN) that can classify a dog's breed for any user given image
- Implemented the deep learning model on Keras with Tensorflow backend
- Modeled the prototype using AWS EC2 GPU instance for 400 times faster computing than on a traditional CPU

***Sentiment analysis Model***

- Designed a model based on Natural Language Processing (NLP) which can be applied to analyse how happy some tweets
- Performed Logistic Regression based on features extracted from the data with the help of Count Vectorizer from Scikit-learn
- Delivered 84% accuracy on "Sentiment140", a dataset which originated from Stanford University (http://cs.stanford.edu/people/alecmgo/trainingandtestdata.zip)

***Speed Detection of a Vehicle using Serial TTL Camera***

- Revised the previous model by using a TTL Camera, image detection and processing
- Used MATLAB for background subtraction and contour detection (segmentation) and written in C++
- Achieved 89% accuracy on color-images and non-occlusive traffic

***Prototype of an Online Shopping Store***

- Created a store website using Ruby on Rails framework, exploring a MVC model
- Executed HTML preprocessors like ERB, Slim, HAML and SCSS to develop an user-interactive fronted
- Designed a SQLite database for easy-to-manage and clean storage of data

## LEADERSHIP EXPERIENCE

***Community Volunteer for Society of Women Engineers - SCU Chapter***

- Volunteered to educate and provide awareness to the underserved students for 2 years
- Conducted events like Girls' Scouts Day to expose girls to developments and opportunities in the field of Computer Engineering