# Happy **Sisodia**

Software Engineer · Data Scientist

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## Summary

Adaptable Computer Science Major Currently attending Clemson University , with over 2 years of work Experience. Aiming to leverage a proven knowledge of Advanced technology, application development and database design to successfully prove myself. I am a diligent worker and can be relied upon to make valuable contribution to company in achieving its goals and providing data driven, action oriented solution to challenging business problems

## Education

**Clemson University** *Clemson, South Carolina*

M.S. in Computer Science *Jan. 2019 - Dec. 2020*

- Coursework: Data Mining, Artificial Neural Network, Data Analysis, Applied Data Science, Intro. to Artificial Intelligence, Multimedia Application

**Gujarat Technological University** *Gujarat, India*

B.E. in Computer Science *Aug. 2011 - July. 2015*

- Coursework: Data and file structure, Analysis of algorithm, Database Management System

## Work Experience

**Thirdware Solution Ltd** *Mumbai, India*

Software Engineer *Aug. 2015 - Dec. 2017*

- Modify existing software – QAD to fit according to the needs of the client and to upgrade interfaces and improve performance. Development of report, maintenance screen or a whole new module.
- Advice customer about or perform maintenance of software system.
- Store, retrieve and manipulate data for analysis of system capabilities and requirements
- Confer with project manager to obtain information on limitation and capabilities for data processing projects
- Supervise and assign work to programmers, designers and other engineers to work and code in QAD
- Prepare reports concerning project specification , activities or status
- Worked for various clients like Lear, Watts Water and Vishay Semiconductor

## Projects

### CNN FOR IMAGE CLASSIFICATION

- Built an Convolutional Neural Network model using sequential method of Keras to predict the label of Image. The training and testing of the model was done using CIFAR-10 dataset.I achieved an accuracy of 76 on the dataset using this model. Moreover used different pre-processing steps – Normalization and One hot Encoding.

### K-MEANS CLUSTERING USING RANDOM MATRIX SPARSIFICATION

- Analysed and compared the performance of K-Means on data Matrix and sparse data matrix. The performance of K-means on sparse data matrix was optimal and took less time.

### FEED FORWARD NEURAL NETWORK TO PREDICT INJURY SEVERITY

- Built an Multi-layered feed forward Neural Network using only NumPy to predict the injury severity. The model was trained and tested on the FARS dataset for the year of 2018.
- The MLP gave an accuracy of 46 for the multi-class classification and 60 for the binary classification

### MULTI-LABEL CATEGORIZATION OF CONSTRUCTION PROJECTS

- Successfully Extracted and labelled important information using supervised learning from construction contracts and project requirement document using python. This was done using Naïve-Bayesian, SVM, logistic regression and feed forward neural network. To improve the accuracy Word2Vec, Doc2vec and various other data cleaning methods were also used

### FCN For Image Segmentation

- In this Project I have done Scene Parsing of Images using segmentation of models built upon a base of VGG16 network. The model built is similar but the final classifier layer has been discarded and has been converted to fully connected layer to convolutions.

## Skills

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|---|---|
| **Front-end** | HTML5, CSS3 |
| **Programming** | Python, R, C, C++, Progress, SQL, LaTeX |
| **Others** | Linux, MS Office, QAD, Github, Tableau |