

Education

Gainesville, FL	University of Florida	Dec 2016
<ul style="list-style-type: none">• M.S in Computer and Information Science, College of Engineering, GPA: 3.6• B.Tech in Electronics and Communication, Dharmsinh Desai University, May 2014, GPA: 3.7, Distinction• Related Coursework: Analysis of Algorithms; Advanced Data Structures; Distributed Operating Systems; Data Science; Machine Learning; Pattern Recognition.		

Experience

Research Assistant	University of Florida	Present
<ul style="list-style-type: none">• Implemented word2vec, glove models and Visualization techniques on one million PubMed articles to develop pain ontology.• Analysed thematic structure underlying pain articles by implementation of Topic Modelling . Python, Gensim		
Software Engineer	Tata Consultancy Services	Dec 2013 – Jun 2015
<ul style="list-style-type: none">• Developed prototype of HMI(Sync 3) and simulation models for "360 degree" and "Park Aid" features of Ford automobile.• Improved efficiency of network management by developing automation software for Infrastructure management of MNC.• Prototyped Quadcopter to detect plant disease in crops for agriculture purposes. Matlab, C, Qt, QML, Powershell		

Projects

Feature Based Opinion Mining of Amazon and Best Buy Customer Reviews
<ul style="list-style-type: none">• Implemented complete Data Science pipeline : cleaning, integration, prediction and visualization to gain insights.• Efficiently used Data Mining and Natural Language Processing techniques to extract dynamic features from customer reviews.• Designed Naive Bayes Classifier for sentiment analysis. Hadoop, Java, Python, AWS, NLTK, Tableau
REST/CRUD Facebook API + Client Simulator
<ul style="list-style-type: none">• Scalable API of social network supporting end points of User, Profile, Page, Friends list, Photos and Albums developed.• A client to simulate the exact behavior of social network is created. Both, API and client uses Actor model.• Engineered security using end-to-end encryption and Digital signatures. Scala, Akka, Spray-can
PageRank Implementation on Wikipedia Corpus using Hadoop and Amazon Web Services
<ul style="list-style-type: none">• This project efficiently uses five Map-Reduce jobs to accomplish tasks of XML Parsing, Rank calculation and ordering.• Implemented up to eight iterations of PageRank algorithm along with redlinks(dead links) removal. Hadoop, Java, AWS
Shortcut - An Application that finds shortest route in a Grocery Store
<ul style="list-style-type: none">• Application of Traveling Salesman problem (along with heuristics) to find the shortest route in a graph.• Created RESTful api for any front-end client to connect and access data. Python, Google App Engine

Languages and Technologies

- **Languages** : Python, C++, C, Scala, Matlab, Go, Java, Powershell
- **Frameworks** : Hadoop, OpenCV, Scikit-Learn, Scikit-Image, NLTK, Gensim, Pandas, Simulink, AWS, Akka
- **OS/Applications** : Git, Latex, Windows and Linux variants

Leadership Experience

- **Webmaster (IEEE)**: Empowered for overall coordination, website development and events organization.
- **Designer (DDU Connect)** : Designed university monthly magazine using Indesign and Photoshop for span of a year.
- **Co-ordinator (Tech Genesis)** : Delivered and Organized Arduino workshops and competitions for corporate employees.

Publication

- A Simple and Effective Optical Character Recognition System for Digits Recognition using the Pixel-Contour Features and Mathematical Parameters, Jenil Shah et al, IJCSIT, Vol. 5 (5) , 2014, 6827-6830