# Tejas Sharadkumar Dhrangadharia

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## SUMMARY

More than **4 years** of industry experience in **programming** with expertise in **data analytics**, **big data programming** and **machine learning algorithms** ensuring high reliability and scalability.

## TECHNICAL COMPETENCIES

- Programming Languages: Python, Java, R, .NET, MATLAB
- Machine learning algorithms like Regression, Naïve Bayes, Neural Network, Decision Tree, Random Forest, SVM, PCA, Clustering
- Big Data technologies involving Hadoop, MapReduce and Spark.
- Hands on experience of libraries like NumPy, Pandas, d3.js, Scikit-learn, Matplotlib, TensorFlow, Text Mining, Swagger, Bootstrap, LeadTools
- In depth knowledge of AWS including AWS EC2, S3, Code Deploy, Code Pipeline
- Proficient in Database technologies like SQL Server, PostgreSQL, MySQL, SQLite
- Backend as well as frontend involving REST API, Django, Django Rest Framework (DRF), AngularJS, JavaScript, HTML5, JQuery, CSS
- Agile methodology and software development life cycle using JIRA scrum.
- Source control including GitHub, SVN

## PROJECTS

**Data Analytics Pipeline Using Apache Spark (Spark, TF-IDF)**                                April 2018
- Developed data analytics pipeline for multi-class classification of text data (**600 articles** for 4 different categories) using **Apache Spark** and **TF-IDF**. Used **Logistic Regression** and **Naïve Bayes** machine learning algorithm for classification.

**Movie Recommendation Engine (Python)**                                April 2018
- Built a recommendation engine from the content of the TMDB dataset that includes 5000 movies and TV series. Once the user provides the name of the file he liked, the engine will suggest a list of 5 films that user will enjoy.

**Data Aggregation, Big Data and Visualization (Hadoop MapReduce, Python, d3.js)**                                March 2018
- Collect the data using #deleteFacebook from Twitter (**20K tweets**) and NYTimes (**120 Articles**).
- Cleaned the data using **nltk Python** library and then implemented mapper and reducer for word count problem and then drill deeper into the analysis by obtaining the word co-occurrences in the dataset. Data Visualization using **d3.js**.

**Classifying faces and handwritten Digits (Neural Network, Python, TensorFlow)**                                March 2018
- Implemented a **multilayer Perceptron Neural Network** (forward pass and back propagation) and evaluate its performance in classifying faces (**200K images**) and handwritten digits (**60K images**).
- Compared the performance of **neural network** against a **deep neural network** using the **TensorFlow** library.

**Quora Duplicate Questions Pairs** (R) - Dataset: **400K records**                                October 2017 - November 2017
- The objective is to identify the potential duplicate questions. Data cleaning was handled using **Text Mining** library. **Linear regression**, **Random Forest** and **Gradient Boosting** modeling used for model fitting.
- **Achieved 51% accuracy** using these techniques. (Maximum accuracy on Kaggle is 65%)

## PROFESSIONAL EXPERIENCE

**Python Developer Intern - Codal Inc, Chicago, USA**                                June 2018 - Current
- Developed and Deployed REST API using Django Rest Framework (DRF) and AWS EC2, S3, Swagger and PostgreSQL, Nginx, Gunicorn

**Software Engineer - Trellissoft Engineering Services Pvt. Ltd., Gandhinagar, India**                                December 2016 – August 2017
- Increased performance up to 60% of various modules of Record Management System like Label Manager and Label Printing by developing COM component in VB6
- Engaged in **client communication** for understanding new requirements and communicate the same to the team members.

**Software Engineer - Vavni Services Pvt. Ltd., Gandhinagar, India**                                March 2013 – November 2016
- Formulate **design document**, **architecture** and **database design** for Record management system.
- Developed 'Document Viewer' module for viewing, printing, sending and annotating document using third party library LeadTools. Developed External Database and Bar Code Search Order modules.
- Used skills of HTML, JQuery and CSS in Seagate Wireless Plus and LaCie Fuel Network drive to build user interface (cross platform).
- Also worked on developing automation script using Selenium Web Driver and Java for user interface of Seagate Wireless hard drive. With this script, reduced the time for UI testing from 4 hours to 30 mins.
- Developed In house Android app 'Smart Lock' for locking and unlocking the door using Bluetooth. Application is supporting key sharing with other users that was developed using Google Cloud Messaging (GCM)
- Addressed customer found issues and ensured the reliability of the system by delivering timely solutions.

## EDUCATION

**University at Buffalo, SUNY**

Masters of Science, Data Science (GPA 3.54/4)                                Expected Conferral: August 2018

**L. D. College of Engineering, Ahmedabad, India**

Bachelor of Engineering, Information Technology CGPA 7.5/10                                August 2013