MANASVI THAKKAR

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EDUCATION

M.S. Computer Science	**University of Houston**	**May 2018**
B.E. Information Technology	**MIT College of Engineering**	**May 2016**

TECHNICAL SKILLS

Programming Languages and Frameworks: Java, Python, R, MATLAB, JavaScript, Angular 4, Node.js, PHP, HTML, CSS, C.
Databases: MySQL, MongoDB

WORK EXPERIENCE

Software Developer   **University of Houston**   **Jan 2017 – Present**
Web Application for Faculty Senate at The University of Houston - https://fs.uh.edu
Technologies and Frameworks – JavaScript, jQuery, HTML, CSS, PHP, MySQL, Git.
- Developed, tested and deployed a fully functional secure web application for faculty senate using model-view-controller architecture.
- Developed a RESTful API in PHP to deliver data from database via HTTP requests.
- Implemented access control in application by creating an admin dashboard that allows to lock down the entire application for various roles created by the admin.
- Designed advanced queries in MySQL to realize complex functionality.

Chat Application for UIT services at the University of Houston
Technologies and Frameworks – Angular 4, Node.js , MongoDB ,Git.
- Implemented login functionality for chat agents to log into chat dashboard using JWT authentication.
- Developed RESTful API in Node.js to interact with MongoDB.
- Implemented chat history functionality which enables chat agents to view their past chat logs.

Software Engineering Intern   **Persistent Systems**   **July 2015 – March 2016**
Stock Market Behavior Analysis using Sentiment Analysis
- Developed a dynamic dashboard using HTML, CSS, PHP, Bootstrap and JavaScript to display real-time analysis of stock market based on user sentiments.
- Developed a Machine Learning model using a combination of Machine Learning Algorithms to perform Sentiment Analysis on public sentiment data related to stocks.
- Programmed in Python to handle cases of negation, abbreviations, contractions and employed spam detection leading to 5% increase in the accuracy of original classifier.

INDEPENDENT PROJECTS

Collaborative Single Page Drawing Application   **December 2016**
Tools and Technologies: AngularJS, Node.js, Express.js, Socket.io.
- Implemented a Single Page Collaborative Drawing Application using AngularJS, Node.js and Socket.io
- Achieved collaboration between all the connected clients by building Node.js server and client that send and receive the lines drawn on the web page.

ACADEMIC PROJECTS

Mining Frequent k+ itemsets   **Feb 2017**
- Implemented Pattern Mining Algorithm based on Apriori Algorithm to mine frequent k+ size itemsets from a transaction database consisting of 30k transactions.
- Programmed in Java and tuned the Apriori algorithm to optimize the performance by reducing the search space and successfully reduced the running time from 30mins to 3-4 mins for different cases of support.

Iris recognition System   **Nov 2016**
- Implemented Iris Recognition System to identify individuals based on uniqueness of iris pattern. The system is tested on MMU 1 Database to verify its performance.
- Programmed in MATLAB to implement segmentation which was achieved using circular and linear Hough transformation and employed thresholding to achieve better results. Implemented Daugman's algorithm to achieve normalization after segmentation.

Hidden Markov Model Part of Speech Tagger   **Nov 2016**
- Implemented Hidden Markov Model Part of Speech Tagger from scratch to tag a corpus consisting of 60k tokens.
- Programmed in Python to handle ambiguous tags and implement Viterbi algorithm to beat the baseline results by a margin of 7%.

QuizIT (Quiz Website)   **May 2016**
Developed an online quiz website using JavaScript, HTML, CSS and PHP/MySQL which enabled users to take tests from multiple domains, review their marks, analyze their results by comparing their answers with the actual answers.