MANASVI THAKKAR

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EDUCATION

Master of Science, Computer Science **GPA – 3.4** University of Houston, Texas **May 2018**
Bachelor of Engineering, Information Technology **GPA – 3.6** University of Pune, India **May 2016**

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, PHP, MATLAB, R, C
- **Web Technologies:** JavaScript, jQuery, AJAX, Angular 2-4, Node.js, Express.js, PHP, HTML5, CSS, Bootstrap
- **Databases:** MySQL, MongoDB
- **Miscellaneous:** Git

PROFESSIONAL EXPERIENCE

Full Stack Engineer (Intern) **University of Houston** **Jan 2017 – Present**

- Developed responsive web applications using MVC architecture
- Deployed RESTful APIs in Node.js and PHP
- Created payment gateways for different colleges and implemented JWT authentication
- Participated in agile and scrum meetings including sprint planning, daily stand-ups, retrospectives, reviews and provided innovative solutions to client problems. Utilized Git and GitLab on all projects

Software Engineering Intern **Persistent Systems** **Fall 2015**

- Built a Machine Learning model in Python using combination algorithms such as Naive Bayes, LinearSVC and NuSVC to perform Sentiment Analysis on tweets regarding specific stocks in the stock market
- Boosted the accuracy of the model by 5% using feature engineering and feature selection
- Created a dynamic dashboards using HTML5, CSS, PHP and JavaScript to display the real-time analysis of data

INDEPENDENT PROJECTS

Real-time Chat App **Jan 2017**

- Created a light-weight, real-time chat service application using AngularJS and socket.io that can be embedded into a website easily by adding a few lines of code
- Deployed services on Amazon Web Services using EC2, performing load and functionality testing using Artillery and Mocha

ACADEMIC PROJECTS

Path Learning AI using Reinforcement Learning (Python) **Nov 2017**

- Designed and developed an agent-based system that explores and learns paths in an unknown 2D world
- Implemented path visualization and analysis techniques to interpret the behavior of AI

Pattern Mining (Java) **March 2017**

- Used Apriori Algorithm to find frequent itemsets from Amazon transaction database
- Optimized the performance by successfully reducing the run time by 90%

Boolean Search Engine (Java) **April 2017**

- Created a toy search engine that retrieves results using Boolean queries

Iris Recognition System (MATLAB) **Oct 2016**

- Implemented Daugman's algorithm to identify individuals based on uniqueness of their iris pattern