Shivangi Singh

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EDUCATION:

University of Massachusetts Amherst   **Amherst, MA**

B.S. in Computer Science   **Expected Graduation:** December 2018   **GPA: 3.79**

RELEVANT COURSEWORK:

Software Engineering, Artificial Intelligence, Algorithms, Web Programming, Natural Language Processing, Systems Principles, Applied Machine Learning.

SKILLS:

Proficient: Java, Python, HTML, CSS, JavaScript, Bootstrap 4, SQL.
Experience: Eclipse, Spark, MongoDB, Git, MapReduce, Scala, pandas, C, C++ Node.js, D3.js, Django.

PROJECTS:

Device Analytics (Software Development)-
- A web application that lets HPE users manage/custom the alerts on their devices.
- The application used Node.js for backend, MongoDB to store the data and Bootstrap for the front end.
- Followed the full Software Development Cycle of analysing Use Cases to writing technical documents such as the SRS, HLD, LLD for the client.

MyAndroid (Python)
- A mobile application that uses Machine Learning classifiers like SVM, Random Forest, Decision trees from the sklearn to perform various classification tasks.
- The application had two main functionalities one the classification of certain physical activities the user was performing using accelerometer data, the classifier works with 92% accuracy.
- Secondly, as speech detector which identifies the speaker. Improved accuracy from 56% to 78% by implementing the pith feature.

Sentiment-Analysis-On-YelpReviews (Python)
- Performed sentiment analysis on Yelp reviews to give the restaurant a better understanding of their customers.
- Used NLP packages like NLTK, TextBlob, Naive Bayes and customized Turney's algorithms to perform sentiment analysis on the 3-star ratings of Yelp Reviews. Also, used POS-Tagging to describe aspects that a business might be interested in. Eg. Food. Customized Turney improved the accuracy from 54% to 62%.

TA&Co. (Web Application)
- A web application built using BootStrap 4, HTML, CSS, JavaScript and Django to aid the communication between professors and their teaching assistants. The application lets the user log in hours worked, on-going/ anticipated assignments, comments.

WORK EXPERIENCE:

Recruitment and Outreach Leader   University of Massachusetts Amherst, MA   Sep 2016-present
- Worked closely with the Academic Dean of the College of Computer Science in setting up tours for prospective undergraduate students.
- Student speaker at college events. Mentored students on being successful in the program.

Teaching Assistant   University of Massachusetts Amherst, MA   Sep 2016- May 2018
- Acted as a liaison between the Teaching Assistants in the department and the Course Chair.
- Collaborated with course instructors in teaching calculus concepts.
- Responsible for orchestrating review lessons and weekly office hours.

Awards:

William F. Field Scholarship Award:
- Awarded to rising seniors for academic excellence and service to the community.