VISHESH SHARMA

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EDUCATION

Santa Clara University
Masters in Computer Science and Engineering *Fall '18 – Fall '20 (Expected)*
Thadomal Shahani Enginnering College
B.E. in Information Technology *July '14 – July '18*

TECHNICAL SKILLS

- **Languages**: C, C++, Java, Python, Octave/ Matlab, HTML, Javascript, CSS, PHP, SQL.
- **Databases**: MySQL, Oracle Database.

CERTIFICATIONS

- **Machine Learning Course (Stanford University)**: Completed an ML course by Andrew Ng on Coursera.
- **Codechef Certified Data Structures and Algorithms Programme Foundation Exam**: Passed coding exam.

PROJECTS

Python Project on EEG Dataset:
*Independent Project (Tools used: **Python**)* *May '17 - June '17*

- Performed analysis on the dataset from UCI Archive by parsing and storing the dataset, visualizing the data by visualizing all channels of a recoding in a single graph & multiple graphs.
- Recorded a HeatMap for average of each channel, bar plots between frequency and voltage.
- Compared means between two subjects using Implot and performed t-tests on both subjects thus finding the relationship between two subjects.

Task Scheduling in Cloud Computing using AHP Algorithm:
*Independent Project (Tools used: **CloudSim, Java**)* *Jan '18 – March '18*

- AHP algorithm is used along with Task Classification and VM Categorization to enable longer tasks to run on more powerful machines by efficiently scheduling the tasks according to their importance using CloudSim.
- Implemented by Classifying the tasks into three classes as per their task lengths, calculating the priority vector for all the classes, sorting the classes based on their priority, and executing the tasks on the VM.
- This approach reduces complexity which results in the increasing processing speed resulting in reduction of execution time and waiting time for the important tasks.

Developed an E-Commerce Website:
*Course Project (Tools used: **HTML, CSS, Javascript, PHP, SQL**)* *Nov '16 – Feb '16.*

- Maintained a database of various items and created a user interactive website experience with different functionalities such as adding item to cart, checking the price of a product etc.
- Developed test scripts and execute functional tests across a variety of environments
- Successfully maintained an sql database where user details are stored and also user activities on the website is updated regularly.

Coding library in GitHub:
*Coding Repository, BE (Languages used: **Java, Cpp**)* *2014 - Ongoing*
Created a personalized coding library of standard codes in GitHub for my reference in competitive coding.

WORK EXPERIENCE

CDRI (Central Drug Research Institute) **Data Scientist**, Dec 2017 - May 2018

- Performed collection of the data on the art galleries via Web Parsing and cleaned the data by eliminating the missing values and updating values which were in incorrect format.
- Preformed visualization techniques on the data by plotting it on the bar graphs and creating box plots of the data
- Sent the report after analyzing the data after comparing the values and forming a correlation between them with the help of graphs and also by comparing the average values of the data.

ACHIEVEMENTS

- **Came 2nd at Codeathon (TSC22017):** Came 2nd in a college competition held on CodeChef
- **Teaching Assistant for the committee 'TSEC CodeCell'**: Conducted coding workshops and competitions for the junior students to encourage a coding environment in the college.
- Won 2 Gold , 3 Silver & 10 Bronze medals and achieved 95th percentile in Algorithms domain on HackerRank.