

VISHESH SHARMA

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EDUCATION

Santa Clara University

Masters in Computer Science and Engineering

Fall '18 – Fall '20 (Expected)

Thadomal Shahani Engineering 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 recording 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.

Linear Regression with Gradient Descent:

Independent Project (Tools used: Octave, GNU Octave)

Nov '17 – Nov '17

- Prediction of profit with respect to the population in an area by applying gradient descent on the data.
- Plotting the bar graph between the two and finding the peaks in the graph plot.
- Finding the maximum profit by comparing the peaks of the graphs.

Developed a Data Science Project using Python:

Internship Project (Tools used: Python, Numpy, Pandas, Matplotlib)

Nov '17 – Dec '17

- This project was based on a yearly National Achievement Survey where the data was of Class VII students.
- Plotted bar graphs between different subjects and conditions and also calculating the average marks in Maths and Science.
- Formed conclusions after comparing the marks of the students under different conditions and finding the best conditions for improved performance in scores.

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.
- Performed 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.

EXTRA CURRICULAR

- **Model of United Nations:** Represented the United Arab Emirates in the United Nations Human Rights Council.