VISHESH SHARMA

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EDUCATION

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

TECHNICAL SKILLS

- **Tools & Languages**: Java, Python, Android Studio, SQL, HTML, Javascript, CSS, PHP, Cpp, Octave/ Matlab.
- **Databases**: Firebase, 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.

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.

PROJECTS

Android Application Development:
*Course/ Group Project (Tools used: **Android Studio, Java, Firebase**)*   *Jan '19 – Ongoing*
- Developed a snapchat like application where instead of pictures a user can share different songs with his/her friends by sharing the snippet of the song with the title of the song along with the link to the songs.
- Listed the songs on the main page stored in the SD card, and extracted the title of the song which the user wants to share and retrieving the link to the song by connecting to the YouTube application and posting it as a story.
- Developed using Android Studio with the help of Java at the backend and used Firebase for authentication and for storing the user information along with the song snippets.

Developed a Face Recognition algorithm using PCA (Principal Component Analysis):
*Course/ Independent Project (Tools used: **Matlab**)*   *Jan '19 - March '19*
- Computed the covariance matrix by reducing the n-dimensions to k-dimensions and computed 'eigenvectors' of the matrix with the help of SVD (Singular Value Decomposition).
- Compared the two faces by projecting the facespace and calculating the Euclidean distance between them, and also projected each image vector on the facespace and successfully extracted the PCA features of the test image.
- Successfully compared the two faces and printed the recognized image on the screen with the help of the ORL (AT&T) image database.

Developed an E-Commerce Website:
*Course/ Independent 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
- Maintained a sql database where user details are stored along with the user activities which are regularly updated.

Developed a Twitter REST API to retrieve the friends and followers of a user:
*Internship Project (Tools used: **Python, Tweepy library, JSON**)*   *July '16 – July '16.*
- Created a developer twitter application to generate the consumer_key, consumer_secret, access_token and access_key.
- Gained authentication to access the database by validating the access keys using OAuth package.
- Successfully generated a list of friends and followers of a given user.

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.

ACHIEVEMENTS

- **Came 2nd at a college competition (TSC22017):** Came 2nd in a college competition held on CodeChef.