VISHESH SHARMA

Santa Clara, CA 95050 **Ph**: +1 (669) 225-5695 **Email**: visheshsharma51@gmail.com
GitHub: https://github.com/Vishesh51 **LinkedIn**: https://www.linkedin.com/in/vishesh-sharma51/

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, Cpp, Android Studio, SQL, HTML, Javascript, CSS, PHP, 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 with the help of Python.
- Performed visualization techniques on the data by plotting it on the bar graphs and creating box plots of the data
- Sent the report after comparing the average values and forming a correlation between.

PROJECTS

Android Application Development:
*Course/ Group Project (Tools used: **Android Studio, Java, Firebase**)* *Jan '19 – Ongoing*

- Developed a snapchat like application where instead of photo users can share different songs with its followers.
- Listed the songs on the main page from the SD card, and extracted the title and artist name of the song along with the snippet of the song using Ffmpeg library which the user can post by clicking on the share button.
- Developed using Android Studio with the help of Java at the backend and used Firebase for authentication and for storing the user information and the song snippets, along with the user's list of friends and followers.

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.
- Printed the recognized image on the screen, implemented with the help of ORL (AT&T) image dataset.

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 executed 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 '17 – July '17*

- 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.

Developed a Computer Graphics Project using C++:
*Course Project (Tools used: **C++, Turbo C++**)* *Feb '16 – April '16*

- Created a computer graphics animation with the help of C++, using 'graphics.h' library. Here, different functions like fractals, bezier, bresenhem and midpoint functions were implemented to depict different types of animations.
- An animated movie using the above functions was successfully run in 'Turbo C++'.

Coding library in GitHub:
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.