SAKSHAT SURVE

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Education

The University of North Carolina at Charlotte **Charlotte, USA.**
Master of Science in Computer Science | GPA – **4.0/4.0** **Expected: May 2020**
Courses: Algorithms and Data Structures, Databases, Computer Graphics, Machine Learning, Computer Networks, Cloud Computing, Business Intelligence and Analytics, Visual Analytics, Knowledge Discovery in Databases.

University of Mumbai **Mumbai, India.**
Bachelor of Engineering in Computer Engineering | GPA – **7.55/10.0** **Graduated: May 2018**
Courses: Operating Systems, Website Development, Software Engineering, Structure and Object Oriented Analysis and Design, Data Warehousing and Data Mining.

Software Skills

Programming: Python, Java, C, WebGL, HTML5, CSS, Bootstrap, JavaScript, SQL, MySQL, SAS.
Development Tools and Libraries: Tableau, Jupyter, PyCharm, Workbench, Matplotlib, Pandas, Numpy.
Skills: Data Modelling, Data Analysis, Data Visualization, Data Cleaning.
Statistical Analysis: Clustering, Logistic Regression, Linear Regression, Neural Networks.

Work Experience

Teaching Assistant at UNC Charlotte: **August 2019 – December 2019**

- Assisting students with assignment and projects in WebGL with the use of JavaScript and HTML.
- Holding office hours to grade and review the assignments of 50+ students and providing them face to face feedback to improvise on techniques and to execute their projects.

Projects

Stock Prediction using Sentimental Analysis: **March 2019 – May 2019**

- Collected data from Social Media website (Twitter) and news. Performed Semantic Analysis on it to get one of the positive, negative, neutral or compound score.
- The model consists of Long-Short Term Memory (LSTM) and Artificial Neural Networks (ANN). Performed Web Crawling using python script and "Beautiful Soup" library.
- For optimizing the results, a Genetic algorithm was used and select the best hyper-parameters. It computes the fitness scores of the initial random population to select the hyper-parameters over which crossover and mutation are performed till the population converges and we get the fittest hyper-parameters.

Floor Navigator: **October 2018 – November 2018**

- Developed a replica for 2 floor building and created a model to navigate it in first person using WebGL and JavaScript.
- Added textures and lighting to make the model more realistic.

Healthcare Management System: **September 2018 – November 2018**

- Developed a database on Healthcare Systems using MySQL.
- Implemented queries for this database using Data Definition Language (DDL) and Data Manipulation languages (DML).

Real Time Event Detection: **August 2017 – April 2018**

- Collected data from social media feeds by applying web scraping methods such as Data Harvesting.
- Performed Stemming and Tokenization on them and used it to identify the disaster and notify the users via text messages.
- Applied semantic analysis to classify tweets and detect event occurrence in real-time and provide location estimation of manmade and natural disasters.

Martial arts and Cricket League: **March 2018 – April 2018**

- Created a Website using HTML, CSS and Bootstrap for Martial Arts Academy. Distributed database on Indian Cricket League using Data Definition language and MySQL.

Disk Scheduling in Operating Systems: **February 2016 – March 2016**

- Implemented Disk Scheduling algorithms in Operating Systems like First in First out, Shortest Seeking Path First, etc.
- These algorithms were implemented on C using graphics library showing the graphical representations of how the algorithms work.

Extracurricular Activities

- Conducted a Self-Defense workshop for women (2018).
- Co-logistics Head, Association for Computing Machinery (College Student Chapter, 2016).
- Volunteer, Indian Development Foundation (NGO, 2015).