MAHAVIR CHANDALIYA

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Objective: Seeking position as a Software Engineer to work in Machine Learning.

EDUCATION

San Jose State University, San Jose, CA **Jan 2022-Present**
Pursuing Master's in Computer Engineering
D.J. Sanghvi College of Engineering, Mumbai University, India **Nov 2020**
Secured Bachelor of Computer Engineering. **7.29/10**
Relevant Coursework: Applied Mathematics, Analysis of Algorithms, Operating Systems, Data Structures, Artificial Intelligence and Soft Computing, Machine Learning, Big data Analytics, Data warehousing and Mining
Vasantrao Naik College of Science, Aurangabad, India **March 2016**
Secured *Distinction* in Higher Secondary Certificate Examination. **(82%)**

ACADEMIC PROJECTS & PAPER

Machine Learning GUI Application

- Programmed an application with a GUI to train Machine Learning models on a dataset with selected features that predict a user's target variable and plot a graphical representation of the data.
- Worked on the project to strengthen competence with Python's Machine Learning libraries such as Pandas, Scikit Learn, and NumPY and gain a deeper understanding of Machine Learning algorithms such as Linear Regression, SVM, and Kmeans. Developed the application with Python libraries like Matplotlib, Pandas, Sklearn.
- Implemented Git for version control and Tkinter for GUI.

Blood Analyzer Using Image Processing and Computer Vision

- Developed an Automated Blood Analyzer which returns Haemoglobin level, RBC, WBC and Platelet count in the blood from a microscopic blood sample image.
- Programmed and optimized the application with Python. Procured and cleaned the blood data set obtained from Kaggle and Pathology labs in Mumbai for testing.
- Calculated the data from each blood-cell image using Computer Vision and Machine learning, with a GUI in tkinter.

Employee Attrition Prediction Model

- Developed a Prediction Model for Employee Attrition using Employee dataset with attributes like Age, Health, Job Satisfaction, Salary, and Marital-Status, to improve HR management, customer retention and minimize losses.
- Applied four Machine Learning algorithms, Naïve Bayes, SVM, Decision Tree, and KNN with past and current employee data to predict Employee churn rate, out of which Decision Tree algorithm gave the highest accuracy.

Social distancing detection using Computer Vision

- Developed using Tensor flow and Computer Vision, the program detects people on a live video feed from a CCTV camera, highlights the person if social distancing norms are broken and alerts the user.
- Research paper on Social distancing detection by continually monitoring the distance between people in a public place using a few code lines is an efficient way to enforce social distancing and control the pandemic's spread.

TECHNICAL SKILLS

- Python, C, C++, HTML, CSS, JavaScript, React, Node, PHP, React Native.
- Knowledge of different Machine Learning paradigms, Databases and Data science tools.
- Experience with Tensor flow, Android Studio, Django, Google Colab, Git and Github.

CO-CURRICULAR & EXTRA-CURRICULAR ACTIVITIES

- Volunteered in various plantation drives and other social work through NSS (National Social Scheme), a student association that organizes various community service events.
- Volunteered at IDF (Indian Development Foundation), an NGO for Education and Health welfare in Mumbai, devoted 75 hours of community service through health drives and educational events in 2018 – 2019.
- Helped spread awareness and built engagement for "Trinity", the college's annual cultural festival, by organizing various social events such as Inter Departmental Competitions, College fairs and other Cultural events.
- Participated in Coding Hackathons and various Coding Competitions online and also was part of various technical workshops such as Raspberry Pi and Python workshop (Mar 2017), Ethical Hacking and Cellular Security (Oct 2016).
- Completed various online certificate courses on LinkedIn, Hacker rank and Coursera, such as Applied Machine Learning, AI and data science foundations, AI foundations: Neural Networks, Data Mining, and Advance Python.