Jay Mehta

Mumbai 400022 | jmehta1@ucsc.edu | +91 9892526651 | [LinkedIn](#)

EDUCATION

University of California, Santa Cruz, USA   **September 2022 – June 2024**
Master's in Computer Science

Mumbai University, India   **July 2018 – June 2022**
Bachelor of Engineering in Information Technology with Distinction   [CGPA 9.0/10]

PROFESSIONAL EXPERIENCE

Saint Louis University, GlobalShala | *Data Visualization Intern* | October 2021 – November 2021
- Cleaned and processed large datasets to make statistical analysis and visualizations using Python, Excel and Tableau.

Grroom | *Machine Learning Intern* | July 2021 – September 2021
- Annotated images, web scraping, model training and model testing using Python, TensorFlow, Google-Colab, LabelImg.

LetsAlign | *Software Development Intern* | November 2020 – May 2021
- Developed and Integrated Intelligent Chatbots and deployed it on Facebook, WhatsApp and webpages, using the Jio Haptik platform.
- Worked as a full-stack web developer to fix bugs, setup new pages, improve styling and manage various online businesses.

Blue Eye Soft Corp | *Privacy Preservation and Data Mining Research Intern* | June 2020 – April 2021
- Built an application using Flutter and Android Studio ([Link](#)). Also worked on UI/UX, integrating APIs and services.
- Appointed as a student mentor and oversaw a team of 6 members that participated in the Global Def Hackathon that was hosted at Baku, Azerbaijan to showcase our Differential Privacy Algorithm.
- Authored a paper titled, 'Homomorphic Encryption in Healthcare Analytics'.

ACADEMIC PROJECTS AND PAPERS

ASL (American Sign Language) Tutor
- Developed various Deep Learning models to recognize gestures in the American Sign Language and output a confidence score based on the input stream. Incorporated the models into a mobile application for ease of use.
- Technologies used: Python, CNN, TensorFlow, Keras, OpenCV, Darknet, YOLO, Android Studio, Kaggle, and Google Colab.
- Authored and published a paper on the same, [Link](#)

Business Intelligence on prediction of Covid vaccinations
- Made various statistical inferences on a covid vaccination distribution dataset (from Kaggle) and predicted future demographics using several machine learning models.
- Technologies used: Python, Kaggle, Pandas, NumPy, Linear Regression, Random Forest and ARIMA time series.

A-star path finding algorithm
- Implemented an algorithm that allows one to find the shortest path between two grid points after manually creating random barriers or constraints on the grid and showcased its working through a GUI.
- Technologies used: Python, TKinter, Pygame, Jupyter notebooks.

TECHNICAL SKILLS

- **Programming Languages**: Python, C, C++, HTML5, CSS, JavaScript, MySQL, JSON.
- **Machine Learning tools**: Scikit-Learn, TensorFlow, Keras, PyTorch, Pandas, Numpy.
- **Mobile Application Development**: Flutter, Dart and Java.
- **Software/Tools**: AutoCAD, MATLAB, Wireshark, Android Studio, Tableau, MogoDB, Git.
- **Web Technologies**: AWS and Docker, Jupyter Notebooks, WordPress, NodeJS

EXTRA CURRICULAR ACTIVITIES

- Interned at The Art of Living in association with IAHV (International Association for Human Values) on a Watershed Management program in Maharashtra in 2019-20. Worked on the geographical maps of districts and identified land depressions with the help of previous years data, using AutoCAD and Google Earth Pro.
- Participated in an aero-modeling workshop at the KJ Somaiya University, built a physical model using a software 'xflr5' and tested its flight conditions under the guidance of a professor from IIT-Bombay, from 2018-19.
- Participated and conducted in many technical workshops. Completed many courses and certifications online. [Link](#)
- Volunteered in helping disabled students at the SIES College of Arts, Science and Commerce. Contributed in helping stray animals as a member of the YODA Rehabilitation Centre for Animals, since 2020.