

## EDUCATION

Master of Computer Science, *University of California, Irvine*

Sept 2022 - Dec 2023

B.Tech in ICT and with minors in Computational Science, *DA-IICT, GPA: 8.8/10*

Aug 2018 - May 2022

## TECHNICAL SKILLS

C, C++, Python, JavaScript, HTML, CSS, SQL, React, Node.js, Next.js, PHP, Matlab, Drupal, MongoDB, Firebase, Tailwind CSS

## EXPERIENCE/INTERNSHIPS

Software Developer Intern, **HuddleUp**, Remote

Mar 2022 — June 2022

- Worked as a frontend engineer to **build a custom LMS (Learning Management System)** for different clients
- Companies can use this portal to educate their employees by adding their customized teaching modules, customize workspace and channels, and devise their own quizzes

Research Intern, **DA-IICT**, Gandhinagar, India

Jan 2022 — June 2022

- **Curated the largest open-source dataset** for *Corporate Credit Rating with Financial Ratios* ([Link](#) to the dataset)
- Devised a set of **time-independent, simple if-else rules** based on financial ratios to **help corporate firms attain investment grade rating**
- **Explainable AI** techniques have been used for prediction and visualisation purpose to offer **better interpretability** of results

Teaching Assistant, **DA-IICT**, Gandhinagar, India

Aug 2021 — Dec 2021

- Teaching assistant for the course of Computational Finance, and conducted **weekly lab sessions for the final-year MSc Data Science students**
- Involved in preparing lab assignments, clarifying conceptual doubts of the students, and teaching relevant subject topics along with grading lab assignments

Research Intern, **DA-IICT** in association with the **Institute for Plasma Research (IPR)**, Gandhinagar, India

Oct 2020 — Aug 2021

- Developed an **efficient serial algorithm for generating synthetic images of plasma**
- Noises of **different distributions** were added to make the images more realistic
- **Parallelized the developed serial algorithm** using *OpenMP* for generating the synthetic images of plasma at a very rapid rate

Research Intern, **DA-IICT**, Gandhinagar, India

May 2021 — Aug 2021

- Devised an algorithm that could efficiently **count the number of leaves** in the image of a plant
- Project aimed at assisting plant phenotyping and specifically for **detecting diseases in plants at an early stage**
- Techniques related to **semantic and instance segmentation** have been used along with ML models for prediction purpose

Summer Intern, **Indian Institute of Technology (IIT) - Bombay**, Mumbai, India

Apr 2020 — Jun 2020

- **Made custom plugins** for content migration from *Drupal 6 and 7* to *Drupal 8* ([Link](#) to the fellowship report)
- Migration of *Drupal* websites implemented using *Drush* command line as well as using *Drupal* UI.
- Migrated **hss.iitb.ac.in** from *Drupal 7* to *8* without any data loss, using custom-made plugins and other modules

## PROJECTS

### Real-Time Chat App

- Made a **real time web app for chatting, synced with Google account**. Users can converse with multiple contacts, and can see whether the other person is currently logged in to the app or not.
- **Read messages are differentiated from unread ones** using different color codes.

### Music recommendation system

- Made a **custom recommender system** that suggests songs which the user is likely to listen to
- Songs recommended on the basis of **collaborative and content-based filtering**

## PUBLICATIONS

- Kirtan Delwadia, **Dhruvil Bhatt**, Shishir Purohit, and Bhaskar Chaudhury, “*Parallel algorithm for synthetic image generation with application to tokamak plasma diagnostics*,” submitted at “Concurrency and Computation: Practice and Experience” journal (DOI: [10.1002/cpe.7217](#))
- **Dhruvil Bhatt**, Kirtan Delwadia, Shishir Purohit, and Bhaskar Chaudhury, “*Computational Modeling of Noisy Plasma Images applicable to Tokamak Imaging Diagnostics for Visible and X-ray Emissions*,” submitted at “ICMC 2023 (International Conference on Mathematics and Computing)” (*under review*)
- Ravi Makwana, **Dhruvil Bhatt**, Kirtan Delwadia, Agam Shah, and Bhaskar Chaudhury, “*How to Get Investment Grade Rating in the Age of Explainable AI?*,” submitted at “Expert Systems with Applications” journal (*under review*)

## ONLINE COURSES AND CERTIFICATIONS

- Divide and Conquer, Sorting and Searching, and Randomized Algorithms
- Graph Search, Shortest Paths, and Data Structures
- Applied Machine Learning in Python
- Introduction to Data Science in Python

Stanford University  
Stanford University  
University of Michigan  
University of Michigan