

# Harshil Jhaveri

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## ACADEMICS

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- **University of Southern California** Los Angeles, US  
*Master's in Computer Science* August 2021 - May 2023 (Expected)
- **Dwarkadas J. Sanghvi College of Engineering, University of Mumbai** Mumbai, India  
*Bachelor of Engineering (B.E.), Department of Computer Engineering; CGPA: 9.67/10* Aug 2017 - Present

## EXPERIENCE

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- **Finovate Capital** Mumbai, India  
*Software Development Intern* April 2021 - July 2021
  - Development and maintenance of a robust interactive website with appealing UI in React and PHP
  - Automated Invoicing and FTP server transfers with smart recommendations and AI-based invoice auditing
- **CMS Computers Limited** Mumbai, India  
*Data Science Intern* December 2019 - January 2020
  - Annotation, Detection and Speed Estimation of vehicles for Indian Smart Cities Traffic from Live Camera Feed.
  - Automatic Red Light Violation Detection with an accuracy of over 87% trained on a YOLO model in Caffe.
  - Developed a Python based Desktop App in Tkinter facing Traffic Admin side showing a hash-based authenticated live feed of traffic in a clean UI.
- **Atom Technologies Limited** Mumbai, India  
*Software Development Intern* June 2019 - July 2019
  - Created an E-Commerce platform using Spring and JSP to offer the company's various payment services.
  - Created a multithreading system for simultaneous transactions from the same User ID on the existing payment gateway that helped facilitate multiple simultaneous payments for the same user.
- **ACM Student Chapter at DJSCE**  
*Vice-Chairperson, Technical Head* Oct 2018 - Nov 2020

## RESEARCH WORK

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- **Autoencoder Embedding, Segmentation and Classification of Apparel Images Using a Deep ConvNet**  
*Approach: In Proceedings of the 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA) - November 2020, Published, IEEE Xplore*
- **Training Agents to Play 2D Games using Reinforcement Learning:** *Accepted, Design of Intelligent System using Machine Learning and Deep Learning, Taylor and Francis, CRC Press*
- **Application of BAT Algorithm for Detecting Malignant Brain Tumors:** *Published, Applications of Bat Algorithm and its Variants, Springer Tracts in Nature-Inspired Computing*
- **Leveraging Data Science in Cyber Physical Systems to overcome Covid-19:** *Published, Journal of University of Shanghai for Science and Technology*

## PROJECTS

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- **Patient Holistic Care Portal:** Smart recommendations for patients based on symptoms, with WebRTC based video calls with Doctors and chatbots to support their mental health. Made using PyTorch, Django, Angular, VanillaJS, SIP.js
- **Smart Disaster Rescue and Mitigation System:** Real-time portal for averting disasters in smart cities with mesh network based offline SOS calls. Made using Tensorflow, Node, React and MongoDB.
- **NGO - Volunteer Matching Portal:** One stop portal to match an NGO with prospective volunteers, fundraise and answer cries for help. Made using EmotionAI, Tweepy, Spring, Bootstrap, MySQL and AWS S3
- **Plastic Management Portal:** System for managing single use plastics using CV based classification of the plastic type and Amazon Affiliate API for plastic alternatives. Made using PHP, React, VanillaJS, Docker and MySQL

## SKILLS

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- **LANGUAGES; OPERATING SYSTEMS::** Python, Java, C++, JavaScript, Bash, R; Linux, Windows
- **Web Development:** Git, Django, Flask, Spring, PHP, WordPress NodeJS, React, Angular, MySQL, MongoDB, Docker
- **Libraries and Frameworks:** OpenCV, TensorFlow, PyTorch, Keras, Theano, AWS S3 and Lambda