

# Anish Amul Vaidya

Los Angeles, CA 90007 | aavaidya@usc.edu | (213) 245-4681 | [linkedin.com/in/anish-amul-vaidya](https://www.linkedin.com/in/anish-amul-vaidya) | [github.com/anishvaidya](https://github.com/anishvaidya)

---

## EDUCATION

### University of Southern California

August 2019 - May 2021

Master of Science in Computer Science (Data Science) - GPA 3.35/4

### Vivekanand Education Society's Institute of Technology - University of Mumbai

July 2015 - May 2019

Bachelor of Engineering in Computer Engineering - CGPA 8.95/10

**Relevant Coursework** - Software Engineering, Web Technologies, Data Structures, Databases, Data Mining, Distributed Databases, Operating Systems, Parallel and Distributed Systems, Machine Learning, Soft Computing

## SKILLS

Python, C, Java, Android, HTML5, PHP, Javascript, CSS, Node.js, Laravel, Tensorflow, Keras, Scikit-learn, OpenCV, MySQL, MSSQL server, MongoDB, Firebase, Git, Ubuntu, Manjaro, Docker, AWS, Microsoft Azure Cloud

## EXPERIENCE

### Smart P&ID Machine Learning Intern

December 2018 - January 2019

Larsen & Toubro Infotech, Airoli Mumbai

- Extracting data and assets from CAD Piping and Instrumentation diagrams (P&IDs) in real time for automation.
- Annotated and augmented the real world P&ID dataset to optimum size for input to Convolutional Neural Network Model.
- Implemented the VGG-19 CNN architecture and utilized Adam optimizer and acquired an accuracy of 90.1%.

### Employee Management System - Web Developer

July 2018 - August 2018

KAVWorks Technologies Pvt. Ltd.

- Implemented management functionality in the system using Laravel Framework, Vue.js, MySQL & MongoDB.
- Exported old databases to new system and deployed on firm's network with Heroku server.

### Health Tracker Android application developer

June 2018

Trivia Softwares

- Developed an Android application to calculate and keep track of a person's Body Mass Index.
- Implemented timely diet and exercise alerts and statistical information for the user over a period of time.

## PROJECTS

### Personal Digital Assistant for Alzheimer's Patients - BE Project

May 2018 - April 2019

Prof. Prashant Kanade

Dept. of Computer Engineering, VESIT Mumbai

**Paper published in Computing Methodology journal published by Elsevier BV and made Top - 10 list in topic dementia**

**Link** - [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3266783](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3266783)

Technologies - Tensorflow, Keras, Android, Firebase

- Directed the team to construct an Android application for Alzheimer's patients with features like daily reminders for medicine and meals and providing scene recognition using the images captured from the mobile device.
- Implemented the scene recognition deep neural network model based on VGG-16 Convolutional Neural Network architecture along with MIT's Indoor Scene Recognition dataset and deployed it on Android using Tensorflow Lite.
- Optimized the model leveraging methods like dropout and used stochastic gradient optimizer to acquire an accuracy of 76.4% on test set with 60 classes.

### Face Recognition using One-Shot Learning

June 2018 - November 2018

Prof. Sujata Khedkar

Dept. of Computer Engineering, VESIT Mumbai

Technologies - Python, OpenCV, Keras

- Implemented OpenCV to detect faces in real time from the images captured through the computer's webcam.
- Utilized the FaceNet pre-trained architecture model to create 128 dimensional embeddings for each detected face.
- Constructed the triplet loss function in Python to compare facial embeddings and recognize faces in real time.

### Browser Torrent

January 2018 - March 2018

Prof. Sharmila Sengupta

Dept. of Computer Engineering, VESIT Mumbai

Technologies - VueJS, Torrent API

- Developed a web-application to download legal torrents directly through the browser without having to download any torrent client application.
- Leveraged the Torrent API to handle the protocol and download files in a plug-and-play fashion.

### WiFi controlled vehicle

September 2016

Technologies - C, Arduino Uno, ESP 8266

E-Cell IIT Bombay

**Achieved 1st prize in IOT competition conducted by IIT Bombay throughout Mumbai**

- Managed a team in the IOT competition held across Mumbai by IIT Bombay to build a vehicle controlled wirelessly.
- Created the logic for the control of the vehicle using Arduino and C language.

## CERTIFICATIONS

**Deep Learning.ai Specialization:** 95% in 5 course graded specialization by Professor Andrew Ng

October 2018

**Machine Learning A - Z™:** Hands-On Python & R In Data Science (Udemy)

May 2018