

# SAHIL CHAVAN



Self motivated and directed, have applied Machine Learning, Deep Learning and Data analytical skills for building workflows for workable solutions. Used NLP and Computer vision for building craft with comprehensive skillset. A B.E CSE student, highly motivated and hardworking, looking for a responsible role in a reputable organization where I can make the best of my potential and contribute to the organization's growth.



+91 8104557876



Thane, Maharashtra, India



sahiledupor@gmail.com



github.com/Sahil-Chavan



linkedin.com/in/sahil-chavan/

## PROJECTS

### Application of image classification & CBIR in the E-commerce Fashion Industry

- An complete E-commerce solution incorporating CBIR using Image as query for buyer and Object Detection and Classification of fashion apparel for automatic tagging of listed products benefiting the sellers.

### Traffic Surveillance System

- An OD system for correctly identifying different types of vehicles. I am using an pre-trained SSD Mobilenet V2 model from Tensorflow Model Zoo ,for training I used TFOD and COCO object detection API.
- One can access the system either by the webpage that I have created using Flask, or by using Postman, by accessing the '/api' endpoint.

### Automatic Number Plate Recognition

- An License plates detector of the vehicles using Object Detection and subsequently perform OCR over the detected number plate to obtain the registration number in the form of text.
- In terms of implementation I have used SSD ResNet50 (RetinaNet50) for higher accuracy and other one is SSD MobileNet V2 for higher speed, and open source OCR - Tesseract.

### Facial Recognition Based Attendance System

- An windows application for marking attendance based on detection on ones face in the camera frame in real time. For face detection MTCNN is used and for face recognition an Neural Network with Arc Loss is used and cosine distance as similarity measure.

### Automated Research Proposals Approval System

- Developed a system to manage the synopsis generation and reviewal process for research papers with features like version control of applications, dynamic PDF generation, Gantt chart generation, and automated generation of approval letters for DY Patil School of Medicine.

### Other Projects :

- NSS MU Portal (By Mumbai University)
- Music Generation System Using LSTM RNN
- Automatic Text generation System Using Transformers
- NYC Cab Prediction Case Study
- Stackoverflow Tag prediction

## EDUCATION BACKGROUND

### Ramrao Adhik Institute of Technology, Nerul

*Bachelor of Engineering, Computer Engineering  
Class of 2018-2022*

- Consistent 9.4 CGPA

### Pace Junior Science College, Powai

*High School, HSC , Science  
Class of 2016 to 2018*

- Achieved 80.15%

### New Horizon Public School, Airoli

*CBSE - 10 CGPA*

## ACHIEVEMENTS

- Won Best Project Competition By SDG RAIT.
- Received appreciation letter from NSS MU Director - Mr. Sudhir Puranik
- Was invited twice as an Expert Speaker for the Skill Enhancement Session, once by SDG RAIT and by Computer Society of India
- Successfully Lead and Mentored an team of six under guidance of RAIT TPC Head - Dr. Amarsimh Vidhate

## SKILLS & TECHNOLOGIES

### NLP

Machine Learning

Data Visualization

TensorFlow, Keras

YOLO

NLTK, Gensim

SQL, MongoDB

Node JS, AJAX

PHP, HTML, CSS

Public Speaking

Technologically Competent

### Computer Vision

Deep Learning

Data Preprocessing

PyTorch, Detectron

OpenCV, Pillow

Numpy, Pandas

Django, Flask

Javascript

Python

Smart & Hard Worker

Team Player

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## WORK EXPERIENCE

### Full Stack Developer Intern SDG RAIT

*2 Winter Internships and 1 Summer Internship Under Software Development Group RAIT*  
**11/2019 - 05/2021**

- Refinement of MY RAIT (college's website) Portal.
- Successfully developed and deployed an client base Research Proposal system for DY Patil Medical College.
- Successfully developed and deployed an client base Application, Registration Portal for NSS Mumbai University.

## LANGUAGES

- **ENGLISH**  
Professional Literacy
- **MARATHI**  
Mother Tongue
- **HINDI**  
Secondary Language

## INTERESTS

- Watching Documentaries, science-fiction Movies and Web Series
- Listening to Multilingual Songs
- Global Current Affairs
- Participating in Debates (Competitions as well as real world)
- Currency Collection

## CERTIFICATIONS

- Ineuron - Deep Learning Masters (DLCVNLP) (10/2020 - 05/2021)
- Ineuron - Data Science Architecture (02/2020 - 05/2020)
- Coursera - Python Data Structures (01/2020 - 05/2020)