

# Ankit Sawant

Data Scientist I at OLA | 2x Kaggle Expert  
Bengaluru, India

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## SKILLS

- Computer Vision
- Deep Learning
- Machine Learning
- Pytorch / Tensorflow
- Docker
- Airflow
- Python
- Pyspark
- Hive
- SQL
- MongoDB
- Flask/Django

## WORK EXPERIENCE

### Data Scientist - I, OLA.

June 2021 – Present

- Developed a digitization module to do **OCR** on car RC card for the validation process of used cars which decreased the manual inspection efforts by 79%
- Led a POC to create a car inspection product, successfully built models for car orientation classification, car and car part segmentation, and damage detection using **CNN** architectures like **MaskRCNN**, **UNET**, **DeeplabV3**, and also **SVM** trained on top of **HOG** features. Achieved an IoU of 0.83 on segmentation task
- Initiated development of a standard annotation tool for the organization and later deployed it on a server
- Contributed in creating APIs and deploying their **DOCKER** containers on server to serve *165 rps*
- Co-ordinated with cross-functional teams to make sure smooth incorporation of Data Science solutions

### Software Developer, CitiusTech Inc.

June 2019 – June 2021

- Delivered a POC and presented it to senior stakeholders that helped signing a new client for the project
- Created variety of web pages in Angular 7
- Lead the team in upgrading version of angular from version 7 to 9, making sure all existing features are working perfectly. This reduced the size of the application by 9% and thus improved performance

## PROJECTS

### Face Recognition Attendance System

- Leveraged **MTCNN** face detector model to extract face of a person from the entire image
- Applied **FaceNet** model architecture by Google that uses a Siamese network to verify two images are of the same person or not and developed a web application to authenticate a person
- Stored the 128 bit generated embeddings of the face image in a **MongoDB** database for later comparison.
- Deployed the application on an **AWS Elastic Beanstalk Service** and exposed the service using **Flask API**

### Car Price Prediction

- Scrapped data from various used car selling websites using **BeautifulSoup** module to create my own dataset and created pipeline to clean the scrapped data for training models
- Generated interactive visualizations using **plotly** to analyze the relationship in the data.
- Trained various regression models and evaluated their performance using **Cross Validation**
- Performed hyperparameter tuning on **XGBoost** regressor model, to get best possible model for the problem at hand

### Credit Card Customer Clustering

- Performed feature reduction on the dataset available using **PCA** as a dimensionality reduction technique
- Executed clustering of the resulting data using **KMeans** clustering and **Hierarchical clustering**, using elbow method and dendrograms respectively and evaluated the performance using **silhouette score**
- Received 15+ upvotes for this notebook on Kaggle within 10 days

## EDUCATION

**Sardar Patel Institute of Technology** - B.E. in Electronics and Telecommunication (CGPA: 8.79) **Aug 2015 –Aug2019**

**Core Subjects:** Applied Mathematics, Structure Programming Approach, Image and Video Processing

## COURSES AND CERTIFICATES

- Deep Learning specialization (5 Course Specialization) from [deeplearning.ai](#)
- Awarded 2x Kaggle Expert title.
- Machine Learning Course from [Ineuron.ai](#)
- Won multiple bronze medals on Kaggle for various notebooks and datasets
- Statistics for Data Science certification from [Ineuron.ai](#)