

# Ankit Sawant

Senior Data Scientist at Quinbay | Ex OLA | 2x Kaggle Expert India

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## SKILLS

- NLP
- Computer Vision
- Deep Learning
- Pytorch / Tensorflow
- Generative AI
- Docker
- Airflow
- Kubernetes
- Python
- SQL
- Streamlit
- Flask/Django

## WORK EXPERIENCE

### Senior Data Scientist, Quinbay.

Dec 2022 – Present

- Implemented **Invoice Processing** project utilizing **LayoutLMv3** multimodal model, achieving an F1 score of **0.97**, leading to a **75-hour** daily reduction in manual labor
- Designed a **Auto Reply Suggestion** system for seller and customer chats, leveraging chat data analysis, **mDeBERTa** and **clips/mfaq** model achieving **0.98** mean similarity score with actual responses and **0.94** manual validation accuracy
- Executed **Master SKU** project, conducting catalog cleaning via regex and SQL grouping, clustering SKUs based on **STSB** model embeddings, and further fine-tuning with **contrastive loss**, resulting in consolidation of **53M SKUs** into **36M SKUs**
- Helped the team in tech debt task and debugging work like resolving memory leak issue in the services

### Data Scientist, OLA.

June 2021 – Nov 2022

- Devised 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 **GCP**
- 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, this reduced the size of the application by 9%

## PROJECTS

### Face Recognition Attendance System

- Leveraged **MTCNN** face detector model to extract face of a person from the entire image
- Applied **FaceNet** model that uses a Siamese network to verify two images and developed a web application
- 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
- Evaluated performance of various models using **Cross Validation** and performed hyperparameter tuning

### 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**

## EDUCATION

Sardar Patel Institute of Technology - B.E. in Electronics and Telecommunication (CGPA: 8.79)

Aug 2015 – Aug 2019

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