Car Identifier

Objective

Automate the process of recognizing the details of the cars from images, including make and model.
Build and Deploy a Deep Learning model as a publicaly API endpoint on a clould provider.

Tasks Completed

- Train a deep learning model to identify car details
- Wrap above model in a python flask app
- Dockerised the flask app
- Docker container deployed on a Google Cloud VM instance
- Created Open API specification for the same

URLs

- Prediction Link `(http://tensortaal.com/cars/v1/get_car_details)`
- Open API Documentation Link `(http://tensortaal.com/swagger/)`
- Bitbucket Repository `(https://bitbucket.org/joeyzbb/vipul_jain/src/master/)`

Code

Packaging

The model is wrapped in a python flask app which serves the prediction as an api endpoint.
Flask app has been dockerised using docker.io
API specification has been created using Open API 3.0

Deployment

Docker container has been deployed on a GCP VM instance.

Running the code

Step 1. Navigate to ***vipul_jain/flask***

Step 2. Build docker image with the command below -: `docker build -t vj_cars .`
Step 3. Run docker container with the command below `docker run -d -p 80:4000 vj_cars`
Step 4. Confirm if container is running with the command below -: `docker ps`