Steps for Testing the Trained Model

Download the entire 'Final Code Submission' folder from the following link-

https://drive.google.com/drive/folders/1sp1uDHaKaVRh2dnZvcc_uXbSmwzg-BW3?usp=sharing

1. From that, move the entire *'models'* folder in the- *C:\tensorflow1* folder

2. Next, run the following command in cmd-

    a. *activate tensorflow1*
    b. *cd C:\tensorflow1\models\research\object_detection*

3. Now for detecting emergency vehicles in images, run the following in the cmd-

    a. python Object_detection_image_iterator.py (folder path of test images without '')

The output of this script will be obtained in the shell window. It will have-

i. Image name
ii. Number of vehicles detected in the image
iii. Co-ordinates of center points in the (X,Y) format

The detected images will be saved in the *'C:\tensorflow1\models\research\object_detection\output'* folder

4. Now for detecting emergency vehicles in a video, run the following in the cmd-

    a. *python Object_detection_video.py (file path of test videos without '')*

The output of this script will be obtained in the shell window. It will have-

i. Current frame
ii. Array of number of objects detected till that current frame
iii. Number of vehicles detected in the current frame
iv. Co-ordinates of center points in the (X,Y) format

A similar output as shown in the image above would be obtained for the video.

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