**Traffic Light detection :**

Approach:

Collecting images of traffic light

Manually annotating images for traffic light

Detection of traffic light using object detection models



**(I) (II) (III)**

**(I)** Manually collected nearly 325 images of Green Traffic Light, 187 images of Red Traffic Light and 132 images of Yellow Traffic Light. Images are taken from google. All Green, Red and Yellow Traffic Lights are considered.

**(II)** Annotated 650 images which includes Green, Red and Yellow Traffic Lights.

**(III)** The images are then trained with Tensorflow – 2 Object detection API which was released in July. For training purpose we used “SSD\_Inception\_V2” model. Trained on Google colab with 50000 epochs. By exporting the model we get ‘.pb’ file. Using this file we are detecting Traffic Light on Roads.

**Sample images with detection are given below :**

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