Data used for evaluation:

Existing detectors on MS COCO data set are used to generate detections on train2017 (118k images) for training, val2017 (5k images) for model validation, and test-dev2017 (20k images) for evaluation. Annotations for the corresponding images were 2017 Train/Val annotations [241MB]. The above data sets can be downloaded from

• https://cocodataset.org/#download

Links for the dataset from google drive

• https://drive.google.com/drive/folders/1UdNZn4lqk_wkDLz1JniekihwP3qIsGTL?usp=sh aring

Steps to execute the program:

- 1. To download the Tensorflow detector model
 - a. git clone --depth 1 https://github.com/tensorflow/models
 - b. If error is encountered while insertion of string_int_label_map_pb proto module, place the
 - a. file string_int_label_map_pb2.py from the link below in the folder model/research/object_detection/protos/ https://github.com/datitran/object_detector_app/blob/master/object_detection/protos/string_int_label_map_pb2.py
 - c. Kindly make sure that source file main_prog.py, detection_model.py are in the same directory as models downloaded.
- 2. Installation of prerequisite python models
 - a. pip install -r model/official/requirements.txt
- 3. Executing the program
 - a. $main_prog.py < train images folder > < training images annotations > < test images folder > < test images annotations > or$
 - b. main_prog.py <train images folder> <training images annotations>
- 4. Training, validation samples are present in the following link

https://drive.google.com/drive/folders/1UdNZn4lqk_wkDLz1JniekihwP3qIsGTL?usp=sharing

Folder 5k – 5000 random samples from COCO dataset
Folder 10K – 10000 random samples from COCO dataset
Folder 15K – 15000 random samples from COCO dataset
Folder val2017 – Validation samples from COCO dataset
instances_train2017.json – Annotation for the training dataset
instances_val2017.json – Annotation for the validation dataset