**Selected Model: SSD MobileNet V2 COCO**

[**http://download.tensorflow.org/models/object\_detection/ssd\_mobilenet\_v2\_coco\_2018\_03\_29.tar.gz**](http://download.tensorflow.org/models/object_detection/ssd_mobilenet_v2_coco_2018_03_29.tar.gz)

1. **Step 1: Download model and unpack (ssd\_mobilenet\_v2\_coco\_2018\_03\_29)**

Use the following command to download the model.

wget <http://download.tensorflow.org/models/object_detection/ssd_mobilenet_v2_coco_2018_03_29.tar.gz>

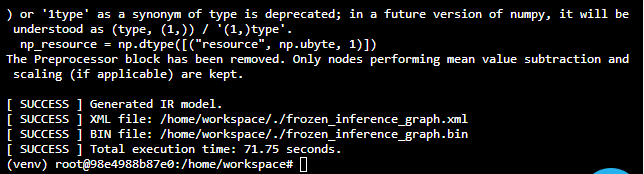
Unpack or extract the model files using tar command as below.

tar -xvf ssd\_mobilenet\_v2\_coco\_2018\_03\_29.tar.gz

1. **Step 2: Generate an IR Model using model optimizer**

Use the command below to generate an IR model

python /opt/intel/openvino/deployment\_tools/model\_optimizer/mo.py --input\_model ssd\_mobilenet\_v2\_coco\_2018\_03\_29/frozen\_inference\_graph.pb --tensorflow\_object\_detection\_api\_pipeline\_config ssd\_mobilenet\_v2\_coco\_2018\_03\_29/pipeline.config --reverse\_input\_channels --tensorflow\_use\_custom\_operations\_config /opt/intel/openvino/deployment\_tools/model\_optimizer/extensions/front/tf/ssd\_v2\_support.json

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A .bin and .xml files are generated which will be used to perform inference. Copy these files from the ssd\_mobilenet\_v2\_coco\_2018\_03\_29 to the workspace directory.

1. **Step 3:**

Finally, use the below command to see the people counter app in action.

python main.py -i resources/Pedestrian\_Detect\_2\_1\_1.mp4 -m frozen\_inference\_graph.xml -l /opt/intel/openvino/deployment\_tools/inference\_engine/lib/intel64/libcpu\_extension\_sse4.so -d CPU -pt 0.6 | ffmpeg -v warning -f rawvideo -pixel\_format bgr24 -video\_size 768x432 -framerate 24 -i - <http://0.0.0.0:3004/fac.ffm>