```
| Seed |
```

```
s3 = boto3.resource("s3", aws_access_key_id=aws_access_key,
        aws_secret_access_key=aws_secret_key)
    model path = "./"
    #Downloading the Training Images
    bucket = s3.Bucket('511004593648-msds436')
    for obj in bucket.objects.filter(Prefix = 'mask_model.zip'):
        print(obj.key)
        file_name = obj.key.split("/")[-1]
        file_path = os.path.join(model_path, file_name)
        print("Downloading to {}".format(file_path))
        bucket.download_file(obj.key, file_path)
    !unzip mask_model.zip
mask_model.zip
    Downloading to ./mask model.zip
    Archive: mask_model.zip
       creating: saved_model/
       creating: saved_model/mask_model/
       creating: saved_model/mask_model/variables/
      inflating: saved_model/mask_model/variables/variables.data-00000-of-00001
      inflating: saved_model/mask_model/variables/variables.index
      inflating: saved_model/mask_model/keras_metadata.pb
      creating: saved_model/mask_model/assets/
      inflating: saved_model/mask_model/saved_model.pb
```

[16] new_model = tf.keras.models.load_model('saved_model/mask_model') new_model.summary()

Model: "sequential"

| Layer (type) | Output Shape | Param # |
|--------------------|-------------------|----------|
| vgg16 (Functional) | (None, 8, 8, 512) | 14714688 |
| flatten (Flatten) | (None, 32768) | 0 |
| dense (Dense) | (None, 50) | 1638450 |
| dense_1 (Dense) | (None, 1) | 51 |
| | | |

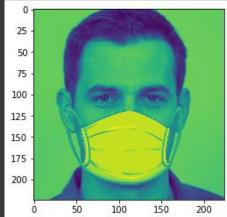
Total params: 16,353,189 Trainable params: 1,638,501

Non-trainable params: 14,714,688

```
if os.path.isdir(export_path):
         print('\nAlready saved a model, cleaning up\n')
         !rm -r {export_path}
     new_model.save(export_path, save_format="tf")
INFO:tensorflow:Assets written to: ./DEPLOY/1/assets
[18] os.environ["MODEL_DIR"] = "/content/DEPLOY"
[19] %pwd ./DEPLOY
     '/content'
[20] %%bash --bg
     nohup tensorflow_model_server \
       --rest_api_port=8571 \
       --model name=helloworld \
       --model_base_path="${MODEL_DIR}" >server.log 2>&1
     Starting job # 0 in a separate thread.
[21] !tail server.log
     [warn] getaddrinfo: address family for nodename not supported
     [evhttp_server.cc : 245] NET_LOG: Entering the event loop ...
```

[68] predict_off_folder("/content/temp")

Accessing file: /content/temp/seed0815.png



Has Mask

Accessing file: /content/temp/Screenshot 2022-01-20 200158-modified.png

