C:\Users\HP\PycharmProjects\FACE\_MASK\venv\Scripts\python.exe C:/Users/HP/PycharmProjects/FACE\_MASK/train\_mask\_detector.py

2022-05-19 17:43:07.133124: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudart64\_110.dll'; dlerror: cudart64\_110.dll not found

2022-05-19 17:43:07.133531: I tensorflow/stream\_executor/cuda/cudart\_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine.

[INFO] loading images...

C:\Users\HP\PycharmProjects\FACE\_MASK\venv\lib\site-packages\PIL\Image.py:993: UserWarning: Palette images with Transparency expressed in bytes should be converted to RGBA images

"Palette images with Transparency expressed in bytes should be "

WARNING:tensorflow:`input\_shape` is undefined or non-square, or `rows` is not in [96, 128, 160, 192, 224]. Weights for input shape (224, 224) will be loaded as the default.

2022-05-19 17:55:38.402842: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll not found

2022-05-19 17:55:43.251013: W tensorflow/stream\_executor/cuda/cuda\_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)

2022-05-19 17:56:30.321705: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:169] retrieving CUDA diagnostic information for host: LAPTOP-5U0TAEGB

2022-05-19 17:56:30.323602: I tensorflow/stream\_executor/cuda/cuda\_diagnostics.cc:176] hostname: LAPTOP-5U0TAEGB

2022-05-19 17:56:34.497101: I tensorflow/core/platform/cpu\_feature\_guard.cc:193] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX AVX2

To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.

[INFO] compiling model...

C:\Users\HP\PycharmProjects\FACE\_MASK\venv\lib\site-packages\keras\optimizers\optimizer\_v2\adam.py:110: UserWarning: The `lr` argument is deprecated, use `learning\_rate` instead.

super(Adam, self).\_\_init\_\_(name, \*\*kwargs)

[INFO] training head...

Epoch 1/10

2022-05-19 18:09:06.314389: W tensorflow/core/framework/cpu\_allocator\_impl.cc:82] Allocation of 154140672 exceeds 10% of free system memory.

2022-05-19 18:09:07.201320: W tensorflow/core/framework/cpu\_allocator\_impl.cc:82] Allocation of 156905472 exceeds 10% of free system memory.

15/95 [===>..........................] - ETA: 6:54 - loss: 0.7736 - accuracy: 0.59072022-05-19 18:09:31.962450: W tensorflow/core/framework/cpu\_allocator\_impl.cc:82] Allocation of 154140672 exceeds 10% of free system memory.

2022-05-19 18:09:32.011918: W tensorflow/core/framework/cpu\_allocator\_impl.cc:82] Allocation of 156905472 exceeds 10% of free system memory.

2022-05-19 18:09:35.308995: W tensorflow/core/framework/cpu\_allocator\_impl.cc:82] Allocation of 154140672 exceeds 10% of free system memory.

95/95 [==============================] - 1075s 7s/step - loss: 0.4242 - accuracy: 0.8484 - val\_loss: 0.1564 - val\_accuracy: 0.9870

Epoch 2/10

95/95 [==============================] - 533s 6s/step - loss: 0.1537 - accuracy: 0.9664 - val\_loss: 0.0761 - val\_accuracy: 0.9922

Epoch 3/10

95/95 [==============================] - 127s 1s/step - loss: 0.1024 - accuracy: 0.9740 - val\_loss: 0.0550 - val\_accuracy: 0.9935

Epoch 4/10

95/95 [==============================] - 192s 2s/step - loss: 0.0801 - accuracy: 0.9796 - val\_loss: 0.0462 - val\_accuracy: 0.9935

Epoch 5/10

95/95 [==============================] - 124s 1s/step - loss: 0.0691 - accuracy: 0.9838 - val\_loss: 0.0391 - val\_accuracy: 0.9935

Epoch 6/10

95/95 [==============================] - 367s 4s/step - loss: 0.0596 - accuracy: 0.9822 - val\_loss: 0.0356 - val\_accuracy: 0.9935

Epoch 7/10

95/95 [==============================] - 844s 9s/step - loss: 0.0528 - accuracy: 0.9848 - val\_loss: 0.0328 - val\_accuracy: 0.9935

Epoch 8/10

95/95 [==============================] - 344s 4s/step - loss: 0.0484 - accuracy: 0.9862 - val\_loss: 0.0305 - val\_accuracy: 0.9935

Epoch 9/10

95/95 [==============================] - 162s 2s/step - loss: 0.0471 - accuracy: 0.9871 - val\_loss: 0.0310 - val\_accuracy: 0.9935

Epoch 10/10

95/95 [==============================] - 133s 1s/step - loss: 0.0497 - accuracy: 0.9868 - val\_loss: 0.0297 - val\_accuracy: 0.9948

[INFO] evaluating network...

24/24 [==============================] - 44s 862ms/step

precision recall f1-score support

with\_mask 0.99 0.99 0.99 383

without\_mask 0.99 0.99 0.99 384

accuracy 0.99 767

macro avg 0.99 0.99 0.99 767

weighted avg 0.99 0.99 0.99 767

[INFO] saving mask detector model...

Process finished with exit code 0