\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Epoch 1/100

14/14 [==============================] - 13s 624ms/step - loss: 3.2275 - accuracy: 0.5478 - val\_loss: 1.3385 - val\_accuracy: 0.6923 - lr: 0.0010

Epoch 2/100

14/14 [==============================] - 6s 429ms/step - loss: 2.0857 - accuracy: 0.6699 - val\_loss: 1.4539 - val\_accuracy: 0.7788 - lr: 0.0010

Epoch 3/100

14/14 [==============================] - 6s 435ms/step - loss: 0.8854 - accuracy: 0.8134 - val\_loss: 1.6583 - val\_accuracy: 0.7404 - lr: 0.0010

Epoch 4/100

14/14 [==============================] - 6s 430ms/step - loss: 0.6193 - accuracy: 0.8278 - val\_loss: 1.4201 - val\_accuracy: 0.7212 - lr: 0.0010

Epoch 5/100

14/14 [==============================] - 6s 445ms/step - loss: 0.2688 - accuracy: 0.9163 - val\_loss: 0.9112 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 6/100

14/14 [==============================] - 6s 450ms/step - loss: 0.1580 - accuracy: 0.9426 - val\_loss: 0.9391 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 7/100

14/14 [==============================] - 6s 465ms/step - loss: 0.1253 - accuracy: 0.9474 - val\_loss: 0.8923 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 8/100

14/14 [==============================] - 6s 466ms/step - loss: 0.1037 - accuracy: 0.9689 - val\_loss: 0.8801 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 9/100

14/14 [==============================] - 6s 465ms/step - loss: 0.0883 - accuracy: 0.9737 - val\_loss: 0.8755 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 10/100

14/14 [==============================] - 6s 442ms/step - loss: 0.0774 - accuracy: 0.9737 - val\_loss: 0.8711 - val\_accuracy: 0.7981 - lr: 1.0000e-04

Epoch 11/100

14/14 [==============================] - 6s 445ms/step - loss: 0.0671 - accuracy: 0.9809 - val\_loss: 0.8551 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 12/100

14/14 [==============================] - 6s 448ms/step - loss: 0.0577 - accuracy: 0.9856 - val\_loss: 0.8480 - val\_accuracy: 0.7981 - lr: 1.0000e-04

Epoch 13/100

14/14 [==============================] - 6s 439ms/step - loss: 0.0514 - accuracy: 0.9880 - val\_loss: 0.8380 - val\_accuracy: 0.7981 - lr: 1.0000e-04

Epoch 14/100

14/14 [==============================] - 6s 442ms/step - loss: 0.0452 - accuracy: 0.9928 - val\_loss: 0.8327 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 15/100

14/14 [==============================] - 6s 441ms/step - loss: 0.0406 - accuracy: 0.9952 - val\_loss: 0.8286 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 16/100

14/14 [==============================] - 6s 468ms/step - loss: 0.0362 - accuracy: 0.9976 - val\_loss: 0.8237 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 17/100

14/14 [==============================] - 6s 431ms/step - loss: 0.0343 - accuracy: 0.9976 - val\_loss: 0.8307 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 18/100

14/14 [==============================] - 6s 442ms/step - loss: 0.0291 - accuracy: 0.9976 - val\_loss: 0.8131 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 19/100

14/14 [==============================] - 6s 437ms/step - loss: 0.0275 - accuracy: 0.9976 - val\_loss: 0.8101 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 20/100

14/14 [==============================] - 6s 432ms/step - loss: 0.0247 - accuracy: 0.9976 - val\_loss: 0.8109 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 21/100

14/14 [==============================] - 6s 432ms/step - loss: 0.0226 - accuracy: 1.0000 - val\_loss: 0.8133 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 22/100

14/14 [==============================] - 6s 440ms/step - loss: 0.0213 - accuracy: 1.0000 - val\_loss: 0.8073 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 23/100

14/14 [==============================] - 6s 441ms/step - loss: 0.0198 - accuracy: 1.0000 - val\_loss: 0.8037 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 24/100

14/14 [==============================] - 6s 422ms/step - loss: 0.0194 - accuracy: 1.0000 - val\_loss: 0.8074 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 25/100

14/14 [==============================] - 6s 468ms/step - loss: 0.0176 - accuracy: 1.0000 - val\_loss: 0.7962 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 26/100

14/14 [==============================] - 6s 442ms/step - loss: 0.0169 - accuracy: 1.0000 - val\_loss: 0.7938 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 27/100

14/14 [==============================] - 6s 435ms/step - loss: 0.0164 - accuracy: 1.0000 - val\_loss: 0.7972 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 28/100

14/14 [==============================] - 6s 439ms/step - loss: 0.0155 - accuracy: 1.0000 - val\_loss: 0.7936 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 29/100

14/14 [==============================] - 6s 439ms/step - loss: 0.0144 - accuracy: 1.0000 - val\_loss: 0.7910 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 30/100

14/14 [==============================] - 6s 441ms/step - loss: 0.0142 - accuracy: 1.0000 - val\_loss: 0.7891 - val\_accuracy: 0.7885 - lr: 1.0000e-04

Epoch 31/100

14/14 [==============================] - 6s 437ms/step - loss: 0.0137 - accuracy: 1.0000 - val\_loss: 0.7874 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 32/100

14/14 [==============================] - 6s 434ms/step - loss: 0.0130 - accuracy: 1.0000 - val\_loss: 0.7858 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 33/100

14/14 [==============================] - 6s 440ms/step - loss: 0.0126 - accuracy: 1.0000 - val\_loss: 0.7826 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 34/100

14/14 [==============================] - 6s 444ms/step - loss: 0.0122 - accuracy: 1.0000 - val\_loss: 0.7795 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 35/100

14/14 [==============================] - 6s 437ms/step - loss: 0.0118 - accuracy: 1.0000 - val\_loss: 0.7784 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 36/100

14/14 [==============================] - 6s 439ms/step - loss: 0.0114 - accuracy: 1.0000 - val\_loss: 0.7760 - val\_accuracy: 0.7788 - lr: 1.0000e-04

Epoch 37/100

14/14 [==============================] - 6s 442ms/step - loss: 0.0112 - accuracy: 1.0000 - val\_loss: 0.7756 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 38/100

14/14 [==============================] - 6s 425ms/step - loss: 0.0108 - accuracy: 1.0000 - val\_loss: 0.7773 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 39/100

14/14 [==============================] - 6s 423ms/step - loss: 0.0105 - accuracy: 1.0000 - val\_loss: 0.7764 - val\_accuracy: 0.7596 - lr: 1.0000e-04

Epoch 40/100

14/14 [==============================] - 6s 426ms/step - loss: 0.0103 - accuracy: 1.0000 - val\_loss: 0.7767 - val\_accuracy: 0.7596 - lr: 1.0000e-04

Epoch 41/100

14/14 [==============================] - 6s 428ms/step - loss: 0.0101 - accuracy: 1.0000 - val\_loss: 0.7766 - val\_accuracy: 0.7596 - lr: 1.0000e-05

Epoch 42/100

14/14 [==============================] - 6s 436ms/step - loss: 0.0100 - accuracy: 1.0000 - val\_loss: 0.7764 - val\_accuracy: 0.7596 - lr: 1.0000e-05

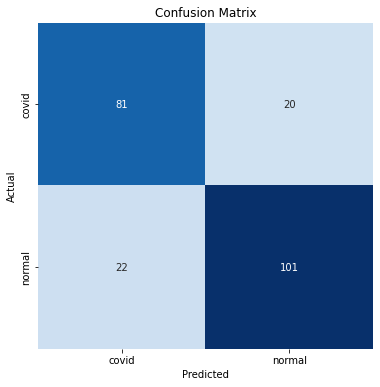
INFO:tensorflow:Assets written to: /content/drive/MyDrive/CTxceptionSplit0.7noAug/assets

Test Loss: 0.65243

Test Accuracy: 81.25%

/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:123: DeprecationWarning: `np.int` is a deprecated alias for the builtin `int`. To silence this warning, use `int` by itself. Doing this will not modify any behavior and is safe. When replacing `np.int`, you may wish to use e.g. `np.int64` or `np.int32` to specify the precision. If you wish to review your current use, check the release note link for additional information.

Deprecated in NumPy 1.20; for more details and guidance: <https://numpy.org/devdocs/release/1.20.0-notes.html#deprecations>



Classification Report:

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precision recall f1-score support

covid 0.79 0.80 0.79 101

normal 0.83 0.82 0.83 123

accuracy 0.81 224

macro avg 0.81 0.81 0.81 224

weighted avg 0.81 0.81 0.81 224

