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Epoch 1/100

55/55 [==============================] - 376s 6s/step - loss: 7.8539 - accuracy: 0.5012 - val\_loss: 1.5559 - val\_accuracy: 0.4862 - lr: 0.0010

Epoch 2/100

55/55 [==============================] - 63s 1s/step - loss: 1.8399 - accuracy: 0.4988 - val\_loss: 0.8587 - val\_accuracy: 0.4862 - lr: 0.0010

Epoch 3/100

55/55 [==============================] - 61s 1s/step - loss: 1.8595 - accuracy: 0.4902 - val\_loss: 2.3790 - val\_accuracy: 0.4862 - lr: 0.0010

Epoch 4/100

55/55 [==============================] - 62s 1s/step - loss: 2.9466 - accuracy: 0.5109 - val\_loss: 3.6986 - val\_accuracy: 0.4862 - lr: 0.0010

Epoch 5/100

55/55 [==============================] - 63s 1s/step - loss: 4.7835 - accuracy: 0.4954 - val\_loss: 7.8189 - val\_accuracy: 0.4862 - lr: 0.0010

Epoch 6/100

55/55 [==============================] - 63s 1s/step - loss: 1.9745 - accuracy: 0.5132 - val\_loss: 0.7238 - val\_accuracy: 0.5138 - lr: 1.0000e-04

Epoch 7/100

55/55 [==============================] - 61s 1s/step - loss: 0.7443 - accuracy: 0.5138 - val\_loss: 0.7276 - val\_accuracy: 0.4862 - lr: 1.0000e-04

Epoch 8/100

55/55 [==============================] - 61s 1s/step - loss: 0.7241 - accuracy: 0.5207 - val\_loss: 0.6970 - val\_accuracy: 0.5138 - lr: 1.0000e-04

Epoch 9/100

55/55 [==============================] - 62s 1s/step - loss: 0.7059 - accuracy: 0.5397 - val\_loss: 0.7077 - val\_accuracy: 0.4862 - lr: 1.0000e-04

Epoch 10/100

55/55 [==============================] - 63s 1s/step - loss: 0.7271 - accuracy: 0.5029 - val\_loss: 0.6797 - val\_accuracy: 0.5138 - lr: 1.0000e-04

Epoch 11/100

55/55 [==============================] - 63s 1s/step - loss: 0.7812 - accuracy: 0.5225 - val\_loss: 0.7258 - val\_accuracy: 0.5138 - lr: 1.0000e-04

Epoch 12/100

55/55 [==============================] - 62s 1s/step - loss: 0.7273 - accuracy: 0.5150 - val\_loss: 0.6814 - val\_accuracy: 0.5023 - lr: 1.0000e-04

Epoch 13/100

55/55 [==============================] - 62s 1s/step - loss: 0.7282 - accuracy: 0.5104 - val\_loss: 0.6801 - val\_accuracy: 0.6175 - lr: 1.0000e-04

Epoch 14/100

55/55 [==============================] - 63s 1s/step - loss: 0.6860 - accuracy: 0.5288 - val\_loss: 0.6789 - val\_accuracy: 0.6659 - lr: 1.0000e-05

Epoch 15/100

55/55 [==============================] - 63s 1s/step - loss: 0.6921 - accuracy: 0.5311 - val\_loss: 0.6853 - val\_accuracy: 0.5138 - lr: 1.0000e-05

Epoch 16/100

55/55 [==============================] - 62s 1s/step - loss: 0.6876 - accuracy: 0.5530 - val\_loss: 0.6901 - val\_accuracy: 0.4862 - lr: 1.0000e-05

Epoch 17/100

55/55 [==============================] - 62s 1s/step - loss: 0.6884 - accuracy: 0.5374 - val\_loss: 0.6864 - val\_accuracy: 0.4862 - lr: 1.0000e-05

Epoch 18/100

55/55 [==============================] - 62s 1s/step - loss: 0.6856 - accuracy: 0.5536 - val\_loss: 0.6788 - val\_accuracy: 0.6382 - lr: 1.0000e-06

Epoch 19/100

55/55 [==============================] - 62s 1s/step - loss: 0.6851 - accuracy: 0.5501 - val\_loss: 0.6791 - val\_accuracy: 0.7926 - lr: 1.0000e-06

Epoch 20/100

55/55 [==============================] - 62s 1s/step - loss: 0.6862 - accuracy: 0.5524 - val\_loss: 0.6790 - val\_accuracy: 0.5369 - lr: 1.0000e-06

Epoch 21/100

55/55 [==============================] - 62s 1s/step - loss: 0.6809 - accuracy: 0.5685 - val\_loss: 0.6788 - val\_accuracy: 0.5714 - lr: 1.0000e-07

Epoch 22/100

55/55 [==============================] - 62s 1s/step - loss: 0.6881 - accuracy: 0.5478 - val\_loss: 0.6788 - val\_accuracy: 0.6866 - lr: 1.0000e-07

Epoch 23/100

55/55 [==============================] - 62s 1s/step - loss: 0.6837 - accuracy: 0.5657 - val\_loss: 0.6789 - val\_accuracy: 0.7512 - lr: 1.0000e-07

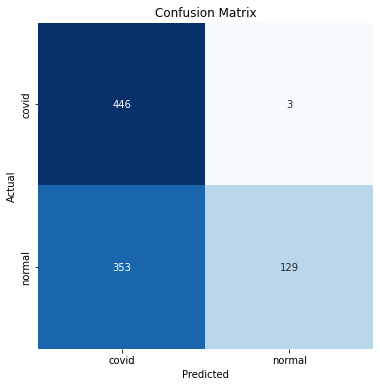
INFO:tensorflow:Assets written to: /content/drive/MyDrive/EfficientNetB7Split0.7noAug/assets

Test Loss: 0.67974

Test Accuracy: 61.76%

/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 0.56 0.99 0.71 449

normal 0.98 0.27 0.42 482

accuracy 0.62 931

macro avg 0.77 0.63 0.57 931

weighted avg 0.78 0.62 0.56 931

