Found 316 validated image filenames belonging to 2 classes.

Found 78 validated image filenames belonging to 2 classes.

Found 169 validated image filenames belonging to 2 classes.

Epoch 1/100

10/10 [==============================] - 13s 1s/step - loss: 0.6803 - accuracy: 0.7215 - val\_loss: 0.6744 - val\_accuracy: 0.6667 - lr: 0.0010

Epoch 2/100

10/10 [==============================] - 11s 1s/step - loss: 0.5477 - accuracy: 0.7310 - val\_loss: 0.5855 - val\_accuracy: 0.6667 - lr: 0.0010

Epoch 3/100

10/10 [==============================] - 12s 1s/step - loss: 0.5186 - accuracy: 0.7310 - val\_loss: 0.5545 - val\_accuracy: 0.6667 - lr: 0.0010

Epoch 4/100

10/10 [==============================] - 12s 1s/step - loss: 0.5080 - accuracy: 0.7405 - val\_loss: 0.6198 - val\_accuracy: 0.6667 - lr: 0.0010

Epoch 5/100

10/10 [==============================] - 12s 1s/step - loss: 0.5011 - accuracy: 0.7278 - val\_loss: 0.4827 - val\_accuracy: 0.7949 - lr: 0.0010

Epoch 6/100

10/10 [==============================] - 12s 1s/step - loss: 0.5501 - accuracy: 0.7342 - val\_loss: 0.5518 - val\_accuracy: 0.6667 - lr: 0.0010

Epoch 7/100

10/10 [==============================] - 11s 1s/step - loss: 0.5221 - accuracy: 0.7310 - val\_loss: 0.5070 - val\_accuracy: 0.6795 - lr: 0.0010

Epoch 8/100

10/10 [==============================] - 11s 1s/step - loss: 0.4507 - accuracy: 0.8133 - val\_loss: 0.4851 - val\_accuracy: 0.6923 - lr: 0.0010

Epoch 9/100

10/10 [==============================] - 12s 1s/step - loss: 0.4420 - accuracy: 0.7532 - val\_loss: 0.4439 - val\_accuracy: 0.7564 - lr: 1.0000e-04

Epoch 10/100

10/10 [==============================] - 12s 1s/step - loss: 0.4137 - accuracy: 0.8165 - val\_loss: 0.4462 - val\_accuracy: 0.7692 - lr: 1.0000e-04

Epoch 11/100

10/10 [==============================] - 12s 1s/step - loss: 0.3923 - accuracy: 0.8354 - val\_loss: 0.3896 - val\_accuracy: 0.8077 - lr: 1.0000e-04

Epoch 12/100

10/10 [==============================] - 12s 1s/step - loss: 0.3836 - accuracy: 0.8354 - val\_loss: 0.3607 - val\_accuracy: 0.7949 - lr: 1.0000e-04

Epoch 13/100

10/10 [==============================] - 12s 1s/step - loss: 0.3732 - accuracy: 0.8544 - val\_loss: 0.3968 - val\_accuracy: 0.7821 - lr: 1.0000e-04

Epoch 14/100

10/10 [==============================] - 12s 1s/step - loss: 0.3565 - accuracy: 0.8354 - val\_loss: 0.3685 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 15/100

10/10 [==============================] - 12s 1s/step - loss: 0.3394 - accuracy: 0.8576 - val\_loss: 0.3344 - val\_accuracy: 0.8718 - lr: 1.0000e-04

Epoch 16/100

10/10 [==============================] - 11s 1s/step - loss: 0.3274 - accuracy: 0.8797 - val\_loss: 0.3302 - val\_accuracy: 0.8718 - lr: 1.0000e-04

Epoch 17/100

10/10 [==============================] - 12s 1s/step - loss: 0.3097 - accuracy: 0.8766 - val\_loss: 0.3056 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 18/100

10/10 [==============================] - 11s 1s/step - loss: 0.3200 - accuracy: 0.8608 - val\_loss: 0.3220 - val\_accuracy: 0.8462 - lr: 1.0000e-04

Epoch 19/100

10/10 [==============================] - 12s 1s/step - loss: 0.3009 - accuracy: 0.8924 - val\_loss: 0.2932 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 20/100

10/10 [==============================] - 12s 1s/step - loss: 0.3000 - accuracy: 0.8829 - val\_loss: 0.3294 - val\_accuracy: 0.9103 - lr: 1.0000e-04

Epoch 21/100

10/10 [==============================] - 11s 1s/step - loss: 0.2885 - accuracy: 0.8797 - val\_loss: 0.3204 - val\_accuracy: 0.8462 - lr: 1.0000e-04

Epoch 22/100

10/10 [==============================] - 11s 1s/step - loss: 0.3377 - accuracy: 0.8639 - val\_loss: 0.2804 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 23/100

10/10 [==============================] - 12s 1s/step - loss: 0.3078 - accuracy: 0.8734 - val\_loss: 0.2719 - val\_accuracy: 0.9103 - lr: 1.0000e-04

Epoch 24/100

10/10 [==============================] - 11s 1s/step - loss: 0.2763 - accuracy: 0.9051 - val\_loss: 0.2694 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 25/100

10/10 [==============================] - 12s 1s/step - loss: 0.2698 - accuracy: 0.9019 - val\_loss: 0.3457 - val\_accuracy: 0.8333 - lr: 1.0000e-04

Epoch 26/100

10/10 [==============================] - 11s 1s/step - loss: 0.2853 - accuracy: 0.8861 - val\_loss: 0.2552 - val\_accuracy: 0.9231 - lr: 1.0000e-04

Epoch 27/100

10/10 [==============================] - 11s 1s/step - loss: 0.2615 - accuracy: 0.9051 - val\_loss: 0.2420 - val\_accuracy: 0.9103 - lr: 1.0000e-04

Epoch 28/100

10/10 [==============================] - 11s 1s/step - loss: 0.2535 - accuracy: 0.9019 - val\_loss: 0.2835 - val\_accuracy: 0.8846 - lr: 1.0000e-04

Epoch 29/100

10/10 [==============================] - 11s 1s/step - loss: 0.2707 - accuracy: 0.8861 - val\_loss: 0.2588 - val\_accuracy: 0.8846 - lr: 1.0000e-04

Epoch 30/100

10/10 [==============================] - 11s 1s/step - loss: 0.2382 - accuracy: 0.9082 - val\_loss: 0.2246 - val\_accuracy: 0.8974 - lr: 1.0000e-04

Epoch 31/100

10/10 [==============================] - 12s 1s/step - loss: 0.2520 - accuracy: 0.9177 - val\_loss: 0.2662 - val\_accuracy: 0.9231 - lr: 1.0000e-04

Epoch 32/100

10/10 [==============================] - 12s 1s/step - loss: 0.2376 - accuracy: 0.9177 - val\_loss: 0.1959 - val\_accuracy: 0.9487 - lr: 1.0000e-04

Epoch 33/100

10/10 [==============================] - 12s 1s/step - loss: 0.2366 - accuracy: 0.9209 - val\_loss: 0.2500 - val\_accuracy: 0.9103 - lr: 1.0000e-04

Epoch 34/100

10/10 [==============================] - 12s 1s/step - loss: 0.2448 - accuracy: 0.9304 - val\_loss: 0.2418 - val\_accuracy: 0.8590 - lr: 1.0000e-04

Epoch 35/100

10/10 [==============================] - 12s 1s/step - loss: 0.2429 - accuracy: 0.9114 - val\_loss: 0.2476 - val\_accuracy: 0.9103 - lr: 1.0000e-04

Epoch 36/100

10/10 [==============================] - 11s 1s/step - loss: 0.2662 - accuracy: 0.8987 - val\_loss: 0.2008 - val\_accuracy: 0.9359 - lr: 1.0000e-05

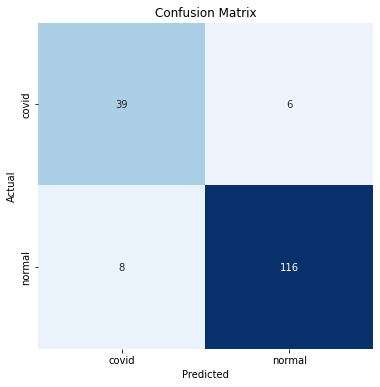
Epoch 37/100

10/10 [==============================] - 12s 1s/step - loss: 0.2288 - accuracy: 0.9177 - val\_loss: 0.2469 - val\_accuracy: 0.8974 - lr: 1.0000e-05

INFO:tensorflow:Assets written to: /content/drive/MyDrive/myCnn/assets

Test Loss: 0.23668

Test Accuracy: 91.72%



Classification Report:

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precision recall f1-score support

covid 0.83 0.87 0.85 45

normal 0.95 0.94 0.94 124

accuracy 0.92 169

macro avg 0.89 0.90 0.90 169

weighted avg 0.92 0.92 0.92 169

