



```
. Epoch 1/10
47/47 [====
           Epoch 2/10
47/47 [==========] - 1562s 33s/step - loss: 0.5526 - accuracy: 0.8237 - val loss: 0.4708 - val accuracy: 0.8050
Epoch 3/10
47/47 [==========] - 1539s 33s/step - loss: 0.4540 - accuracy: 0.8523 - val_loss: 0.4024 - val_accuracy: 0.8300
Epoch 4/10
           47/47 [=====
Epoch 5/10
47/47 [====
             :==============] - 1427s 30s/step - loss: 0.3780 - accuracy: 0.8780 - val_loss: 0.3837 - val_accuracy: 0.8283
Epoch 6/10
47/47 [====
              Epoch 7/10
47/47 [==========] - 1660s 36s/step - loss: 0.3429 - accuracy: 0.8847 - val_loss: 0.3701 - val_accuracy: 0.8383
Epoch 8/10
47/47 [====
               =========] - 1427s 30s/step - loss: 0.3260 - accuracy: 0.8947 - val_loss: 0.4220 - val_accuracy: 0.8133
Epoch 9/10
47/47 [===========] - 1423s 30s/step - loss: 0.3121 - accuracy: 0.9003 - val_loss: 0.3837 - val_accuracy: 0.8283
Epoch 10/10
47/47 [==========] - 1411s 30s/step - loss: 0.3044 - accuracy: 0.9017 - val_loss: 0.3618 - val_accuracy: 0.8367
```

## Confusion matrix 0.01 0.01 0.98 covid - 80 - 60 Target class 0.00 0.98 0.02 normal - 40 - 20 0.00 0.31 0.69 viral pneumonia - 0 wird greenmonia rormal

Output class accuracy rate = 0.88 error rate = 0.12