Screenshots

Loading the Data

Number of COVID Images: 1252 Number of Non-COVID Images: 1231

Folder creation and storing data.

- - ▶ COVID
 - covid-resized
 - data
 - ▼ Test
 - ▶ Covid
 - Non-Covid
 - ▼ Train
 - Covid
 - Non-Covid
 - non-COVID
 - non-covid-resized

Model creation

conv5_block3_add (Add)	(None, 7, 7, 2048)	0	['conv5_block2_out[0][0]', 'conv5_block3_3_bn[0][0]']
conv5_block3_out (Activation)	(None, 7, 7, 2048)	0	['conv5_block3_add[0][0]']
flatten (Flatten)	(None, 100352)	0	['conv5_block3_out[0][0]']
dense (Dense)	(None, 2)	200706	['flatten[0][0]']

Total params: 23,788,418 Trainable params: 200,706

Non-trainable params: 23,587,712

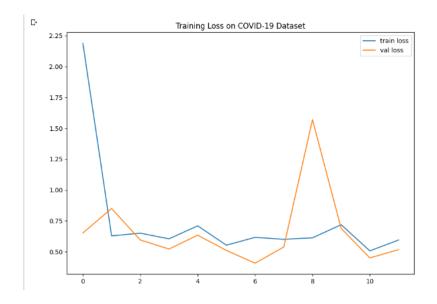
Classifying images into 2 classes

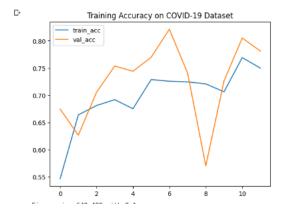
Found 1862 images belonging to 2 classes. Found 621 images belonging to 2 classes.

Model Training

```
Epoch 1/50
  59/59 [====
           Epoch 2/50
  59/59 [====
                  Epoch 3/50
  59/59 [=====
              ==================== ] - 48s 812ms/step - loss: 0.6497 - accuracy: 0.6810 - val loss: 0.5
  Epoch 4/50
  59/59 [====
                       :=======] - 41s 703ms/step - loss: 0.6037 - accuracy: 0.6917 - val loss: 0.5
  Epoch 5/50
  59/59 [============= ] - 42s 710ms/step - loss: 0.7091 - accuracy: 0.6751 - val loss: 0.6
  Epoch 6/50
  59/59 [====
                    :=========] - 37s 632ms/step - loss: 0.5524 - accuracy: 0.7288 - val loss: 0.5
  Epoch 7/50
                    :=========] - 37s 629ms/step - loss: 0.6156 - accuracy: 0.7256 - val loss: 0.4
  59/59 [====
  Epoch 8/50
  Epoch 9/50
  59/59 [====
                  =========] - 37s 630ms/step - loss: 0.6118 - accuracy: 0.7207 - val loss: 1.5
  Epoch 10/50
  59/59 [============ 0.7062 - val_loss: 0.f181 - accuracy: 0.7062 - val_loss: 0.f
  Epoch 11/50
  59/59 [=====
                     :========] - 39s 655ms/step - loss: 0.5062 - accuracy: 0.7691 - val loss: 0.4
  Epoch 12/50
  59/59 [=============] - 36s 602ms/step - loss: 0.5943 - accuracy: 0.7497 - val loss: 0.5
  Epoch 12: early stopping
```

Plotting model results





Predicting result

```
[72] def pred_img(a):
    if(a==1):
        print("The person does not have COVID-19")
    else:
        print("The person has COVID-19")
73] pred_img(al)
```

The person does not have COVID-19