Project Development Phase Model Performance Test

Date	8 nov 2023
Team ID	Team-592597
Project Name	Project - Detecting COVID-19 From Chest XIRays Using Deep Learning Technique
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

Parameter	Values	Screenshot
Model Summary	Total params: 14789955	
	Trainable params: 75267] vgg16.summary()
		Model: "model_7"
	-	Layer (type) Output Shape
	147 14300	input_11 (InputLayer) [(None, 224, 224, 3)]
		block1_conv1 (Conv2D) (None, 224, 224, 64)
		block1_conv2 (Conv2D) (None, 224, 224, 64)
		block1_pool (MaxPooling2D) (None, 112, 112, 64)
		block2_conv1 (Conv2D) (None, 112, 112, 128)
		block2_conv2 (Conv2D) (None, 112, 112, 128)
		block2_pool (MaxPooling2D) (None, 56, 56, 128)
		block3_conv1 (Conv2D) (None, 56, 56, 256)
		block3_conv2 (Conv2D) (None, 56, 56, 256)
		block3_conv3 (Conv2D) (None, 56, 56, 256)
		block3_pool (MaxPooling2D) (None, 28, 28, 256)
		block4_conv1 (Conv2D) (None, 28, 28, 512)
		block4_conv2 (Conv2D) (None, 28, 28, 512)
		block4_conv3 (Conv2D) (None, 28, 28, 512)
		block4_pool (MaxPooling2D) (None, 14, 14, 512)
		block5_conv1 (Conv2D) (None, 14, 14, 512)
		datase_r (datase) (none, 3) 13201
		Tabal 200000 (FC /2 MP)
		Total params: 14789955 (56.42 MB) Trainable params: 75267 (294.01 KB)
		Non-trainable params: 14714688 (56.13 MB)

2.	Accuracy	Training Accuracy – 93% Validation Accuracy – 94.9%	[] vgg16.fit(train,validation_data-test,spochs-2,steps_per_spoch-len(train),validation_steps =len(test)) fpoch 1/2 32/32/ [

ĺ	3.	Confidence Score (Only Yolo Projects)	Class Detected - NA	Not Applicable
			Confidence Score - NA	

Screenshot:

Model Summary

```
vgg16.summary()
Model: "model_7"
 Layer (type)
                             Output Shape
                                                      Param #
 input_11 (InputLayer)
                             [(None, 224, 224, 3)]
 block1_conv1 (Conv2D)
                             (None, 224, 224, 64)
                                                      1792
                             (None, 224, 224, 64)
 block1_conv2 (Conv2D)
 block1_pool (MaxPooling2D) (None, 112, 112, 64)
 block2_conv1 (Conv2D)
                             (None, 112, 112, 128)
 block2_conv2 (Conv2D)
                             (None, 112, 112, 128)
                                                      147584
 block2_pool (MaxPooling2D) (None, 56, 56, 128)
                             (None, 56, 56, 256)
 block3_conv1 (Conv2D)
                                                      295168
 block3_conv2 (Conv2D)
                             (None, 56, 56, 256)
                                                      590080
 block3_conv3 (Conv2D)
                             (None, 56, 56, 256)
                                                      590080
 block3_pool (MaxPooling2D) (None, 28, 28, 256)
 block4_conv1 (Conv2D)
                             (None, 28, 28, 512)
                                                      1180160
 block4_conv2 (Conv2D)
                             (None, 28, 28, 512)
                                                      2359808
 block4_conv3 (Conv2D)
                             (None, 28, 28, 512)
                                                      2359808
 block4_pool (MaxPooling2D) (None, 14, 14, 512)
 block5_conv1 (Conv2D)
                             (None, 14, 14, 512)
                                                      2359808
```

```
Total params: 14789955 (56.42 MB)
Trainable params: 75267 (294.01 KB)
Non-trainable params: 14714608 (56.13 MB)
```

Accuracy