Project Development Phase Model Performance Test

Date	3 November 2023
Team ID	Team-592681
Project Name	Early Diagnosis Of Nail Diseases
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No	Parameter	Values	Screenshot
1.	Model Summary	Total params: 15,141,201 Trainable params: 426,513 Non-trainable params: 14,714,688	1s [15] model .usmeary()
2.	Accuracy	Training Accuracy - 96.03 Testing Accuracy - 98.91	In [17]: model.fit generator(train_data_steps_per_epoch-lan(train_data_sepochs-100) Epoch_L/100

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

Screenshot:

Model Summary

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 224, 224, 3)]	0
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1792
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36928
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73856
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147584
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295168
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590080
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590080
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0
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)	0
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2359808
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2359808
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0
flatten (Flatten)	(None, 25088)	0
dense (Dense)	(None, 17)	426513

Train Accuracy

```
In [17]: model.fit_generator(train_data,steps_per_epoch=len(train_data),epochs=100)
                                                                                                  火
      Epoch 1/100
      C:\Users\Siddhanth\AppData\Local\Temp\ipykernel_10036\1681972780.py:1: UserWarning: `Model.fit_generator` is deprecated and w
      1 be removed in a future version. Please use `Model.fit`, which supports generators.
        model.fit_generator(train_data, steps_per_epoch=len(train_data), epochs=100)
                                                                                                    火
      82/82 [========== ] - 10s 77ms/step - loss: 3.5104 - accuracy: 0.1099
      Fnoch 2/100
      82/82 [============= - - 5s 60ms/step - loss: 2.7147 - accuracy: 0.2519
      Epoch 3/100
      82/82 [====
                        Epoch 4/100
      82/82 [=====
                      =========] - 5s 62ms/step - loss: 2.2131 - accuracy: 0.4198
      Epoch 5/100
      82/82 [=====
                     Epoch 6/100
      82/82 [=====
                     Epoch 7/100
      82/82 [======
                   Epoch 8/100
      Epoch 9/100
      82/82 [=====
                                   - 5s 60ms/step - loss: 1.1756 - accuracy: 0.6580
      Epoch 10/100
      82/82 [=====
                                ===] - 5s 62ms/step - loss: 1.0305 - accuracy: 0.6824
       Epoch 90/100
       82/82 [=====
                          =======] - 6s 68ms/step - loss: 0.4241 - accuracy: 0.8840
       Epoch 91/100
       82/82 [========== ] - 6s 67ms/step - loss: 0.1724 - accuracy: 0.9389
       Epoch 92/100
       82/82 [======
                         ========] - 6s 70ms/step - loss: 0.1559 - accuracy: 0.9527
       Epoch 93/100
       82/82 [=======
                   Epoch 94/100
       82/82 [=============== ] - 5s 66ms/step - loss: 0.2045 - accuracy: 0.9466
       Epoch 95/100
       82/82 [=====
                           =======] - 6s 67ms/step - loss: 0.3152 - accuracy: 0.9084
       Epoch 96/100
       82/82 [======
                                    - 6s 69ms/step - loss: 0.2317 - accuracy: 0.9298
       Epoch 97/100
       82/82 [====
                                     6s 71ms/step - loss: 0.1392 - accuracy: 0.9573
       Epoch 98/100
       82/82 [=====
                                    - 7s 85ms/step - loss: 0.1516 - accuracy: 0.9542
       Epoch 99/100
                     =========== ] - 7s 85ms/step - loss: 0.2344 - accuracy: 0.9344
       Epoch 100/100
                   82/82 [======
Out[17]: <keras.callbacks.History at 0x257bfd1e3e0>
```

Test Accuracy