Project Development Phase Model Performance Test

Date	12 November 2022	
Team ID	PNT2022TMID36274	
Project Name	Project - Fertilizers Recommendation	
	System for Disease Prediction	
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: 896 Trainable params: 896 Non-trainable params: 0	model.summary() Model: "sequential" Layer (type)
2.	Accuracy	Training Accuracy – 96.55 Validation Accuracy – 97.45	200.01/38

Model Summary

```
model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 32)	896
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 63, 63, 32)	0
flatten (Flatten)	(None, 127008)	0
Total params: 896	=======================================	=======

Trainable params: 896 Non-trainable params: 0

Accuracy

model.fit generator(x train, steps per epoch=len(x train), validation data=x test, validation steps=len(x test), epochs=10)

```
Epoch 1/10
225/225 [=============] - 96s 425ms/step - loss: 1.1095 - accuracy: 0.7829 - val loss: 0.3157 - val accuracy:
Epoch 2/10
225/225 [================ ] - 88s 393ms/step - loss: 0.2825 - accuracy: 0.9042 - val loss: 0.3015 - val accuracy:
0.9075
Epoch 3/10
                225/225 [=====
0.9288
Epoch 4/10
225/225 [=========] - 84s 374ms/step - loss: 0.1576 - accuracy: 0.9463 - val_loss: 0.2424 - val_accuracy:
0.9164
Epoch 5/10
225/225 [=========] - 84s 372ms/step - loss: 0.1719 - accuracy: 0.9389 - val loss: 0.1330 - val accuracy:
0.9632
Epoch 6/10
225/225 [===========] - 85s 376ms/step - loss: 0.1240 - accuracy: 0.9580 - val_loss: 0.1340 - val_accuracy:
0.9573
Epoch 7/10
225/225 [===========] - 87s 388ms/step - loss: 0.1235 - accuracy: 0.9591 - val loss: 0.1638 - val accuracy:
0.9478
Epoch 8/10
225/225 [============ ] - 83s 371ms/step - loss: 0.1012 - accuracy: 0.9643 - val loss: 0.1468 - val accuracy:
0.9561
Epoch 9/10
225/225 [============] - 83s 367ms/step - loss: 0.0967 - accuracy: 0.9655 - val_loss: 0.1412 - val_accuracy:
0.9531
Epoch 10/10
225/225 [=========== ] - 83s 369ms/step - loss: 0.0954 - accuracy: 0.9655 - val loss: 0.0905 - val accuracy:
0.9745
```