Project Development Phase Model Performance Test

Team ID	PNT2022TMID39258	
Project Name	Fertilizer Recommendation System for Disease Prediction	

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()
2.	Accuracy	Training Accuracy – 96.55 Validation Accuracy – 97.45	[goch 1/39] - 966 4256s/168p 1981 1.1995 - 40045cy) 8.7815 - val_sciency; 8.7816 - val_sciency; 8.7816 - val_sciency; 8.

Model Summary

model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 32)	896
<pre>max_pooling2d (MaxPooling2)</pre>	D (None, 63, 63, 32)	0
flatten (Flatten)	(None, 127008)	0
		.========

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:
0.8861
Epoch 2/10
                 ========= ] - 88s 393ms/step - loss: 0.2825 - accuracy: 0.9042 - val loss: 0.3015 - val accuracy:
225/225 [=====
0.9075
Epoch 3/10
225/225 [==========] - 85s 375ms/step - loss: 0.2032 - accuracy: 0.9303 - val loss: 0.2203 - val accuracy:
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 [======
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
```