Project Development Phase Model Performance Test

Date	19 November 2022	
Team ID	PNT2022TMID26881	
Project Name	Fertilizers 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	Totalparams:896 Trainableparams:896 Non-trainableparams:0	model.summary() Model: "sequential" Layer (type)
2.	Accuracy	Training Accuracy– 96.55 ValidationAccuracy-97.45	1.00 1/19 1.00 1/20 1/20 1.00 1/20 1/20 1.00 1/20 1.00 1/20 1.00 1/20 1.00 1/20 1/20 1.00 1/20

Model Summary

```
model.summary()
Model: "sequential"
Layer (type)
                        Output Shape
                                              Param #
conv2d (Conv2D)
                        (None, 126, 126, 32)
                                              896
max pooling2d (MaxPooling2D (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)
C:\Users\Sree Ram\AppData\Local\Temp\ipykernel 13228\1582812018.py:1: UserWarning: `Model.fit generator` is deprecated and will
be removed in a future version. Please use `Model.fit`, which supports generators.
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
0.8861
Epoch 2/10
0.9075
Epoch 3/10
0.9288
Epoch 4/10
Epoch 5/10
0.9632
Epoch 6/10
Epoch 7/10
0.9478
Epoch 8/10
0.9561
Epoch 9/10
0.9531
Epoch 10/10
0.9745
```