Project Development Phase Model Performance Test

Date	18 November 2022	
Team ID	PNT2022TMID28594	
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	\$\text{Spin}\$ \ \$\text{1/9} \ \$\text{Spin}\$

Model Summary

model.summary()

Model: "sequential"

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
225/225 [============= ] - 96s 425ms/step - loss: 1.1095 - accuracy: 0.7829 - val loss: 0.3157 - val accuracy:
0.8861
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
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:
Epoch 6/10
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
```