Project Development Phase Model Performance Test

Date	18-11-2022	
Team ID	PNT2022TMID42312	
Project Name	Fertilizers Recommendation	
	System for Disease Prediction	
Maximum Marks	8mark	

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: 5,082,202 Tainable params:		model.summary()
			Model: "sequential_1"
		5,082,202	Layer (type) Output Shape Param #
		Non-trainable	conv2d_6 (Conv2D) (None, 126, 126, 32) 896
		params: 0	<pre>max_pooling2d_2 (MaxPooling (None, 63, 63, 32)</pre>
			flatten_2 (Flatten) (None, 127008) 0
			dense_6 (Dense) (None, 40) 5080360
			dense_7 (Dense) (None, 20) 820
			dense_8 (Dense) (None, 6) 126
			Non-trainable params: 0
2.	Accuracy	Training Accuracy — 96.55 Validation Accuracy — 97.45 \$\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

Model Summary

model.summary()

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_6 (Conv2D)	(None, 126, 126, 32)	896
<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 63, 63, 32)	0
flatten_2 (Flatten)	(None, 127008)	0
dense_6 (Dense)	(None, 40)	5080360
dense_7 (Dense)	(None, 20)	820
dense_8 (Dense)	(None, 6)	126

Total params: 5,082,202

Trainable params: 5,082,202

Non-trainable params: 0

Accuracy

```
\verb|model.fit_generator(x_train, steps_per_epoch=len(x_train), \verb|validation_data=x_test, \verb|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:
Epoch 2/10
225/225 [=============] - 88s 393ms/step - loss: 0.2825 - accuracy: 0.9042 - val_loss: 0.3015 - val_accuracy:
Epoch 3/10
225/225 [====
        0.9288
Epoch 4/10
225/225 [==
        0.9164
Epoch 5/10
0.9632
Epoch 6/10
225/225 [===========] - 85s 376ms/step - loss: 0.1240 - accuracy: 0.9580 - val_loss: 0.1340 - val_accuracy:
0.9573
Fnoch 7/10
225/225 [===
          0.9478
Epoch 8/10
           225/225 [==
0.9561
Epoch 9/10
0.9531
Epoch 10/10
0.9745
```