Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID17868
Project Name	Project - Fertilizers Recommendation
	System for Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No	Parameter	Values	Screenshot	
1.	Model Summary	Total params: 896		
		Trainable params: 896 model.summary() Model: "sequential"		
		Non-trainable params: 0	Layer (type)	
			max_pooling2d (MaxPooling2D (None, 63, 63, 32) 0) flatten (Flatten) (None, 127008) 0	
			Total params: 896 Trainable params: 896 Non-trainable params: 0	
2.	Accuracy	Training Accuracy –	[goch 1/39 26/225 [
		96.55 Validation	25/2/25 [
		Accuracy – 97.45	[con. 6/18] 22/222 [
			\$\text{8.000} 2/18 \text{22722} \tag{2.000} \text{2.18} \text{3.18} \text{3.07e/ttp} \text{2.0si} 0.0907 \text{-scursey} 0.5905 \text{-val_lest} 0.4412 \text{-val_scursey} 0.5013 \text{0.001} \text{0.000} \text{2.000} \tex	

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)
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
225/225 [==========] - 85s 375ms/step - loss: 0.2032 - accuracy: 0.9303 - val_loss: 0.2203 - val_accuracy:
0.9288
Epoch 4/10
0.9164
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
```