Project Development Phase Model Performance Test

Date	2-11-2022
Team ID	PNT2022TMID38223
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: 896 Trainable params: 896 Non-trainable params: 0	model.summary()	
2.	Accuracy	Training Accuracy – 96.55 Validation Accuracy – 97.45	(spech 1/19 20/125	

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

225/225 [==

0.9745

 $model.fit_generator(x_train, steps_per_epoch=len(x_train), validation_data=x_test, validation_steps=len(x_test), epochs=10)$ 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) 225/225 [==========] - 96s 425ms/step - loss: 1.1095 - accuracy: 0.7829 - val_loss: 0.3157 - val_accuracy: 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: Epoch 4/10 Epoch 6/10 0.9573 Epoch 7/10 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 [== 0.9531 Epoch 10/10

==========] - 83s 369ms/step - loss: 0.0954 - accuracy: 0.9655 - val loss: 0.0905 - val accuracy: