Project Development Phase Model Performance Test

Date	21 November 2022	
Team ID	PNT2022TMID49457	
Project Name	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	In [37]: 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, 127808) 0 Total params: 896 Trainable params: 896 Non-trainable params: 0
2.	Accuracy	Training Accuracy – 12.68 Validation Accuracy – 13.07	15 [49]

Model Summary

In [37]: 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

```
 \begin{tabular}{ll} In $ [49]: & model.fit\_generator(x\_train,steps\_per\_epoch=len(x\_train),validation\_data=x\_test,validation\_steps=len(x\_test),epochs=10) \\ \end{tabular}
```

```
Fnoch 1/10
Epoch 2/10
699/699 [==
         =========] - 503s 719ms/step - loss: 2.5669 - accuracy: 0.1268 - val loss: 2.5753 - val accuracy: 0.1307
Epoch 3/10
         Epoch 4/10
Epoch 5/10
699/699 [==:
         :========] - 507s 725ms/step - loss: 2.5626 - accuracy: 0.1268 - val_loss: 2.5738 - val_accuracy: 0.1307
Epoch 6/10
699/699 [==:
          Epoch 7/10
699/699 [==
          ================ - 524s 749ms/step - loss: 2.5625 - accuracy: 0.1268 - val_loss: 2.5745 - val_accuracy: 0.1307
Epoch 8/10
          ========] - 510s 729ms/step - loss: 2.5626 - accuracy: 0.1268 - val_loss: 2.5739 - val_accuracy: 0.1307
699/699 [==
Epoch 9/10
Epoch 10/10
     699/699 [====
```

Out[49]: <tensorflow.python.keras.callbacks.History at 0x7f956d0ac040>