Project Development Phase

Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID47164
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	Per 1/19

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:

Epoch 1/10														
225/225 [========]	- 969	425ms/step	-	loss:	1.1095		accuracy:	0.78	329	- va	l loss:	0.3157	-	val accuracy:
0.8861														THE PROPERTY OF THE PARTY OF TH
Epoch 2/10														
225/225 [=========]	- 889	393ms/step	-	loss:	0.2825	-	accuracy:	0.90	942	- va	l loss:	0.3015	-	val_accuracy:
0.9075											_			
Epoch 3/10														
225/225 [========]	- 859	375ms/step	-	loss:	0.2032		accuracy:	0.93	803	- va	l_loss:	0.2203		val_accuracy:
0.9288														
Epoch 4/10														
225/225 [==========]	- 849	374ms/step	-	loss:	0.1576		accuracy:	0.94	163	- va	l_loss:	0.2424	-	val_accuracy:
0.9164														
Epoch 5/10														
225/225 [==========]	- 849	372ms/step	-	loss:	0.1719		accuracy:	0.93	189	- va	l_loss:	0.1330	-	val_accuracy:
0.9632														
Epoch 6/10														
225/225 [========]	- 859	376ms/step	-	loss:	0.1240		accuracy:	0.95	80	- va	l_loss:	0.1340	-	val_accuracy:
0.9573														
Epoch 7/10														
225/225 [==========]	- 879	388ms/step	-	loss:	0.1235		accuracy:	0.95	91	- va	l_loss:	0.1638	-	val_accuracy:
0.9478														
Epoch 8/10														
225/225 [=============]	- 839	371ms/step	-	loss:	0.1012	-	accuracy:	0.96	43	- va	l_loss:	0.1468	-	val_accuracy:
0.9561														
Epoch 9/10														
225/225 [==========]	- 839	367ms/step	-	loss:	0.0967		accuracy:	0.96	555	- va	l_loss:	0.1412	-	val_accuracy:
0.9531														
Epoch 10/10														
225/225 [==========]	- 839	369ms/step	-	loss:	0.0954	-	accuracy:	0.96	555	- va	l_loss:	0.0905	-	val_accuracy:
0.9745														