Project Development Phase

Model Performance Test

Date	20 November 2022	
Team ID	PNT2022TMID38677	
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) Output Shaper Conv2d (Conv2D) (None, 126, 126, 126, 126, 126, 126, 126, 126	126, 32) 896 63, 32) 0
2.	Accuracy	Training Accuracy – 96.55 Validation	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- accuracy: 0.9042 - val_loss: 0.3015 - val_accura - accuracy: 0.9303 - val_loss: 0.2203 - val_accura
		70.00 variation	Epoch 5/10 22/2/25	

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
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Total params: 896 Trainable params: 896 Non-trainable params: 0

Accuracy:

```
Epoch 1/10
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 [========] - 85s 375ms/step - loss: 0.2032 - accuracy: 0.9303 - val_loss: 0.2203 - val_accuracy:
0.9288
Epoch 4/10
     225/225 [===
0.9164
Epoch 5/10
0.9632
Epoch 6/10
Epoch 7/10
225/225 [===========] - 87s 388ms/step - loss: 0.1235 - accuracy: 0.9591 - val_loss: 0.1638 - val_accuracy:
0.9478
Epoch 8/10
0.9561
Epoch 9/10
225/225 [=========] - 83s 367ms/step - loss: 0.0967 - accuracy: 0.9655 - val_loss: 0.1412 - val_accuracy:
0.9531
Epoch 10/10
```