Project Development Phase Model Performance Test

Date	17-11-2022
Team ID	PNT2022TMID00565
Project Name	Fertilizers Recommendation
	System for Disease Prediction
Maximum Marks	8marks

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: "sequential" Layer (type)

2.	Accuracy	Training Accuracy	0.9158
		– 96.55	Epoch 2/10 225/225 [===================================
		Validation	0.9353 Epoch 3/10 225/225 [===================================
		Accuracy – 95.45	0.9502 Epoch 4/10 225/225 [===================================
			0.93/9/ Epoch 5/10 225/225 [===================================
			Epoch 6/10 225/225 [===================================
			Epoch 7/10 225/225 [===================================
			Epoch 8/10 225/225 [===================================
			cpon 9/10 225/225 [===================================
			Epoch 10/10 225/225 [=============] - 76s 338ms/step - loss: 0.0816 - accuracy: 0.9734 - val_loss: 0.1381 - val_accuracy: 0.9555

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

Trainable params: 896
Non-trainable params: 0

```
Epoch 1/10
475/475 [===========] - 189s 396ms/step - loss: 1.2710 - accuracy: 0.6086 - val_loss: 0.7966 - val_accuracy:
0.7283
Epoch 2/10
475/475 [===========] - 165s 348ms/step - loss: 0.5702 - accuracy: 0.7967 - val_loss: 0.5633 - val_accuracy:
0.8009
Epoch 3/10
475/475 [===========] - 135s 285ms/step - loss: 0.4293 - accuracy: 0.8471 - val loss: 0.7283 - val accuracy:
0.7623
Epoch 4/10
475/475 [============] - 133s 281ms/step - loss: 0.3579 - accuracy: 0.8740 - val_loss: 0.4030 - val_accuracy:
0.8653
Epoch 5/10
475/475 [==========] - 130s 273ms/step - loss: 0.3234 - accuracy: 0.8876 - val_loss: 0.3041 - val_accuracy:
0.8929
Epoch 6/10
475/475 [==========] - 131s 275ms/step - loss: 0.2816 - accuracy: 0.9014 - val_loss: 0.3339 - val_accuracy:
0.8885
Epoch 7/10
475/475 [============] - 140s 294ms/step - loss: 0.2425 - accuracy: 0.9167 - val_loss: 0.4148 - val_accuracy:
0.8700
Epoch 8/10
475/475 [============] - 135s 283ms/step - loss: 0.2438 - accuracy: 0.9153 - val_loss: 0.1830 - val_accuracy:
0.9382
Epoch 9/10
0.9169
Epoch 10/10
475/475 [==========] - 131s 276ms/step - loss: 0.2159 - accuracy: 0.9252 - val loss: 0.1770 - val accuracy:
0.9403
```