FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION

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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 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
2.	Accuracy	Training Accuracy – 96.55 Validation Accuracy –	Non-trainable params: 0
		97.45	[00.0 679

Model Summary

```
      Model: "sequential"

      Layer (type)
      Output Shape
      Param #

      conv2d (Conv2D)
      (None, 126, 126, 32)
      896

      max_pooling2d (MaxPooling2D (None, 63, 63, 32)
      0

      )
      (None, 127008)
      0

      Total params: 896
      Trainable params: 896

      Non-trainable params: 0
      0
```

Accuracy

model.fit generator(x train,steps per epoch=len(x train),validation data=x test,validation steps=len(x test),epochs=10)

```
Epoch 1/10
225/225 [=============== ] - 96s 425ms/step - loss: 1.1095 - accuracy: 0.7829 - val_loss: 0.3157 - val_accuracy:
0.8861
Epoch 2/10
225/225 [============ ] - 88s 393ms/step - loss: 0.2825 - accuracy: 0.9042 - val loss: 0.3015 - val accuracy:
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
0.9164
Epoch 5/10
225/225 [============ ] - 84s 372ms/step - loss: 0.1719 - accuracy: 0.9389 - val loss: 0.1330 - val accuracy:
Epoch 6/10
225/225 [============] - 85s 376ms/step - loss: 0.1240 - accuracy: 0.9580 - val loss: 0.1340 - val accuracy:
0.9573
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
225/225 [===========] - 83s 371ms/step - loss: 0.1012 - accuracy: 0.9643 - val loss: 0.1468 - val accuracy:
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
225/225 [============ ] - 83s 369ms/step - loss: 0.0954 - accuracy: 0.9655 - val loss: 0.0905 - val accuracy:
0.9745
```