

Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID52506
Project Name	Fertilizers recommendation system for disease prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screen Shot
1.	Model Summary	Total Params:896 Trainable Params:896 Non-Trainable Params:0	<pre>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</pre>
2.	Accuracy	Training Accuracy = 90.3 Valuation Accuracy = 89.62	<pre>Epoch 1/10 ----- 105s 612ms/step - loss: 1.1001 - accuracy: 0.0000 100 - val_loss: 0.8263 - val_accuracy: 0.8968 Epoch 2/10 ----- 52s 306ms/step - loss: 0.2627 - accuracy: 0.9030 10 - val_loss: 0.3380 - val_accuracy: 0.8962 Epoch 3/10 ----- 51s 299ms/step - loss: 0.2164 - accuracy: 0.9045 100 - val_loss: 0.2080 - val_accuracy: 0.9241 Epoch 4/10 ----- 51s 304ms/step - loss: 0.2177 - accuracy: 0.9045 100 - val_loss: 0.1579 - val_accuracy: 0.9420 Epoch 5/10 ----- 52s 307ms/step - loss: 0.1619 - accuracy: 0.9217 100 - val_loss: 0.2502 - val_accuracy: 0.9217 Epoch 6/10 ----- 52s 306ms/step - loss: 0.1424 - accuracy: 0.9466 100 - val_loss: 0.1125 - val_accuracy: 0.9597 Epoch 7/10 ----- 52s 307ms/step - loss: 0.1301 - accuracy: 0.9662 100 - val_loss: 0.1007 - val_accuracy: 0.9662 Epoch 8/10 ----- 52s 308ms/step - loss: 0.1170 - accuracy: 0.9662 100 - val_loss: 0.1007 - val_accuracy: 0.9662</pre>
3.	Confidence Score (Only Yolo Projects)	Class Detected - NA Confidence Score - NA	

