## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID27490
Project Name Project - Fertilizers Recommendation S	
	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	-	<pre>model.summary()  Model: "sequential"</pre>		
			Layer (type)	Output Shape	Param #
			conv2d_1 (Conv2D)	(None, 126, 126, 32)	896
			max_pooling2d (MaxPooling2D )	(None, 63, 63, 32)	0
			flatten (Flatten)	(None, 127008)	0
			dense (Dense)	(None, 300)	38102700
			dense_1 (Dense)	(None, 150)	45150
			dense_2 (Dense)	(None, 9)	1359
			dense_3 (Dense)	(None, 300)	3000
			dense_4 (Dense)	(None, 150)	45150
			dense_5 (Dense)	(None, 6)	906
			Total params: 38,199,161 Trainable params: 38,199,161 Non-trainable params: 0		
2.	Accuracy		model.fit(x_train, steps_per_epoch=len(x_train),val:	idation_data=x_test,validation_steps=len(x_te	est),epochs=10)
		87.65  Validation Accuracy - 53.2	Epoch 1/10 356/356 [		ll_loss: 1.8063 - val_accuracy: 0.5680 ll_loss: 1.8846 - val_accuracy: 0.3880 ll_loss: 1.9312 - val_accuracy: 0.3573 ll_loss: 1.2552 - val_accuracy: 0.5560 ll_loss: 2.1893 - val_accuracy: 0.4853 ll_loss: 1.4635 - val_accuracy: 0.7560 ll_loss: 2.5084 - val_accuracy: 0.4227 ll_loss: 1.8773 - val_accuracy: 0.5547

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Values	Screenshot		
3.	Model Summary	-	model.summary()  Model: "sequential"		
			Layer (type)	Output Shape	Param #
			conv2d_1 (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		
4.	Accuracy	Training Accuracy - 94.69  Validation Accuracy - 63.52	model.fit(x_train, steps_per_epoch=len(x_train),validation_data=x_test,validation_steps=len(x_test),epochs=10)  Epoch 1/10 169/169 [====================================		