Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID15472	
Project Name	Fertilizers Recommendation System for Disease Prediction	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot		
1.	Model Summary	Fruit :	Fruit:		
		Convolutional Layer - 896	Model: "sequential"		
		Max Pooling Layer - 0	Layer (type)	Output Shape	Param #
		Fatten Layer - 0	conv2d (Conv2D) max pooling2d (MaxPooling2D	(None, 126, 126, 32)	896 Ø
		Dense Layer - 38102700)	(None, 65, 65, 52)	· ·
		·	flatten (Flatten)	(None, 127008)	0
		Dense 1 - 45150	dense (Dense)	(None, 300)	38102700
		Dense 2 - 906	dense_1 (Dense)	(None, 150)	45150
			dense_2 (Dense)	(None, 6)	906
			Total params: 38,149,652 Trainable params: 38,149,652 Non-trainable params: 0		
		Vegetable :	Vegetable :		
		Convolutional Layer - 896	Model: "sequential"		
		Max Pooling Layer - 0	Layer (type)		
			conv2d (Conv2D)	(None, 126, 126, 32)	896
		Convolutional Layer 2 - 9248	max_pooling2d (MaxPooling2D)	(None, 63, 63, 32)	0
		Max Pooling Layer 2 - 0	conv2d_1 (Conv2D)	(None, 61, 61, 32)	9248
		Fatten Layer - 0	max_pooling2d_1 (MaxPooling 2D)	(None, 30, 30, 32)	0
		Dense Layer - 8640300	flatten (Flatten)	(None, 28800)	0
		·	dense (Dense)	(None, 300)	8640300
		Dense 1 - 45150	dense_1 (Dense)	(None, 150)	45150
		Dense 2 - 1359	dense_2 (Dense)	(None, 9)	1359
			Total params: 8,696,953 Trainable params: 8,696,953 Non-trainable params: 0		

2.	Accuracy	Fruit :	Fruit :
		Training Accuracy - 97.1	
		Testing Accuracy - 97.9	Training and Validation accurarcy 0.950 0.925 0.900 0.875 0.800 Training accurarcy Validation accurarcy Validation loss Training and Validation loss Validation loss 0.8 0.6 0.4 0.2 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9
		Vegetable :	Vegetable :
		Training Accuracy - 89 Testing Accuracy - 89.5	Training and Validation accurarcy 0.90 0.80 0.75 0.70 0.65 0.60 0.55 Training and Validation loss Training and Validation loss 12 10 0.8 0.6 0.4 0.2 2 4 6 8 10