Project Development Phase Model Performance Test

Date	13 November 2022	
Team ID	PNT2022TMID21963	
Project Name	Fertilizers Recommendation System For Disease Prediction	
Maximum Marks	10 Marks	

Model Performance Testing: Fruit Leaf Model:

S.No.	Parameter	Values	Screenshot		
1.	Fruit Model	Total params - 1,06,786	model.summary()		
	Summary	Trainable Params 1,06,786 Non Trainable Params - 0	Model: "model"		
			Layer (type)	Output Shape	Param #
			input_1 (InputLayer)	[(None, 100, 100, 3)]	0
			conv2d (Conv2D)	(None, 100, 100, 64)	4864
			max_pooling2d (MaxPooling2D)	(None, 50, 50, 64)	0
			conv2d_1 (Conv2D)	(None, 50, 50, 64)	36928
			max_pooling2d_1 (MaxPooling 2D)	(None, 25, 25, 64)	0
			conv2d_2 (Conv2D)	(None, 25, 25, 96)	55392
			max_pooling2d_2 (MaxPooling 2D)	(None, 12, 12, 96)	0
			conv2d_3 (Conv2D)	(None, 12, 12, 96)	83040
			max_pooling2d_3 (MaxPooling 2D)	(None, 6, 6, 96)	0
			flatten (Flatten)	(None, 3456)	0
			dense (Dense)	(None, 256)	884992
			dense_2 (Dense)	(None, 10)	2570
			Total params: 1,067,786 Trainable params: 1,067,786 Non-trainable params: 0		
2.	Accuracy	Training Accuracy - 0.99	MODEL EVALUATION		
		Validation Accuracy - 0.97	[60] print("Training Accuracy: ", model.evaluate(features, labels, verbose = 1)) print("Validataion Accuracy: ", model.evaluate(tfeatures, tlabels, verbose = 1)) 169/169 [====================================		

Vegetable Leaf Model

Fruit Leaf Model:

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		Total params: 1,067,786 Trainable params: 1,067,786 Non-trainable params: 0			
Accuracy	Training Accuracy - 0.996	EVALUATE THE MODEL			
7.000.007	Validation Accuracy 0.997	print('Training Accuracy : ', model.evaluate(features, labels, verbose=1)) print('Validation Accuracy : ', model.evaluate(features, tlabels, verbose = 356/356 [====================================		erbose = 1)) 45 - accuracy: 0.99	
	Accuracy	,	Conv2d_1 (Conv2D) max_pooling2d_1 (MaxPooling 2D) conv2d_2 (Conv2D) max_pooling2d_2 (MaxPooling 2D) conv2d_3 (Conv2D) max_pooling2d_3 (MaxPooling 2D) flatten (Flatten) dense (Dense) dense_2 (Dense) Total params: 1,067,786 Trainable params: 0 Accuracy Training Accuracy - 0.996 Validation Accuracy 0.997 Validation Accuracy 0.997	Conv2d_1 (Conv2D)	