Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID18295
Project Name	Fertilizer recommendation system 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	Vegetable model	Model: "sequential_3"			
1.		vegetable illouei	Layer (type)	Output		Param #
Summa	Summary				126, 126, 32)	896
			max_pooling2d_2 (MaxPooling 2D)	(None	, 63, 63, 32)	0
			flatten_2 (Flatten)	(None,	127008)	Ø
			dense_6 (Dense)	(None,	40)	5080360
			dense_7 (Dense)	(None,	20)	820
			dense_8 (Dense)	(None,	300)	6300
			dense_9 (Dense)	(None,	150)	45150
			dense_10 (Dense)	(None,	75)	11325
			dense_11 (Dense)	(None,	9)	684
		Fruit model	Total params: 5,145,535 Trainable params: 5,145,535 Non-trainable params: 0			
			Model: "sequential_2"			
			Layer (type)		Shape	Param #
			conv2d_2 (Conv2D)		126, 126, 32)	896
			max_pooling2d_1 (MaxPooling 2D)	g (None	, 63, 63, 32)	0
			flatten_1 (Flatten)	(None,	127008)	0
			dense_3 (Dense)	(None,	40)	5080360
			dense_4 (Dense)	(None,	20)	820
			dense_5 (Dense)	(None,	6)	126
			Total params: 5,082,202 Trainable params: 5,082,202 Non-trainable params: 0			
2.	Accuracy	Training Accuracy(fruit) – 0.8302	89/89 [=] - 19s 213ms/step Epoch 20/20 89/89 [] - 21s 232ms/step			Section 1 - 100 200 (100 (100 (100 (100 (100 (100 (100
		Validation Accuracy (fruit)- 0.6690				

		Training Accuracy (vegetable)-0.2978 Validation Accuracy (Vegetable)-0.2407	loss: 0.8639 - accuracy: 0.6643 - val_loss: 40.9182 - val_accuracy: 0.8488 loss: 0.4604 - accuracy: 0.8302 - val_loss: 184.6315 - val_accuracy: 0.6690
3.	3. Class Detected(fruit)- 6 Detected Class Detected (Vegetable)- 9	Found 1686 images belonging to 6 classes. Found 5384 images belonging to 6 classes.	
		`	Found 3417 images belonging to 9 classes. Found 11386 images belonging to 9 classes.