Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID32693	
Project Name	Project - Al powered nutrition analyzer for	
	fitness enthusiasts	
Maximum Marks	10 Marks	

Model Performance Testing:

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

S.N	Parameter	Values	Screenshot			
Ο.						
1.	Model Summary	-	> v classifier.summary() •			
			··· Model: "sequential_1"			
			Layer (type) Output Shape Pa	aram # =======		
			conv2d_2 (Conv2D) (None, 62, 62, 32) 89	96		
			<pre>max_pooling2d_2 (MaxPooling (None, 31, 31, 32) 0 2D)</pre>			
			conv2d_3 (Conv2D) (None, 29, 29, 32) 92	248		
			<pre>max_pooling2d_3 (MaxPooling (None, 14, 14, 32) 0 2D)</pre>			
			flatten_1 (Flatten) (None, 6272) 0			
			dense_2 (Dense) (None, 128) 80	02944		
			dense_3 (Dense) (None, 5) 64	45		
			Total params: 813,733	=======		
			Trainable params: 813,733 Non-trainable params: 0			
			Non-trainable params: 0			

2.	Accuracy	Training Accuracy – 99%	797/797 [
		Validation Accuracy -99%	Epoch 3/40 797/797 [=			
			Epoch 5/40 797/797 [
			tepocn 6/40 797/797 [===================================			
			Epoch 8/40 797/797 [
			tpuch 9/40 797/797 [=			
			Epoch 11/40 797/797 [========] - 35s 44ms/step - loss: 0.0734 - accuracy: 0.9734 - val_loss: 0.0458 - val_accuracy: 0.9822 Epoch 12/40			
			797/797 [=			
			Epoch 39/40 797/797 [
			Epoch 40/40 797/797 [
3.	Confidence Score (Only Yolo Projects)	Class Detected – apple, orange, banana, watermelon, pineapple.	train_datagen = ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)			
		Confidence Score	<pre>x_train = train_datagen.flow_from_directory(</pre>			
		- 99%				
			<pre>x_test = test_datagen.flow_from_directory(</pre>			
			Found 3982 images belonging to 5 classes. Found 3982 images belonging to 5 classes.			
			rint(x_train.class_indices) ♥			
			{'APPLES': 0, 'BANANA': 1, 'ORANGE': 2, 'PINEAPPLE': 3, 'WATERMELON': 4}			