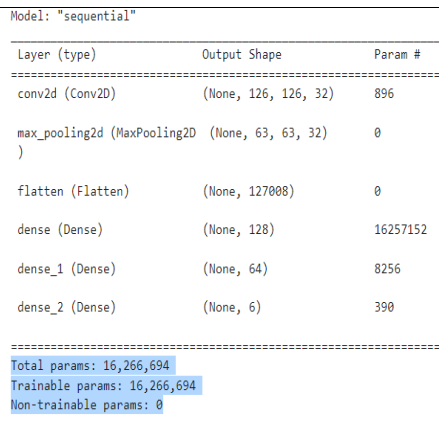
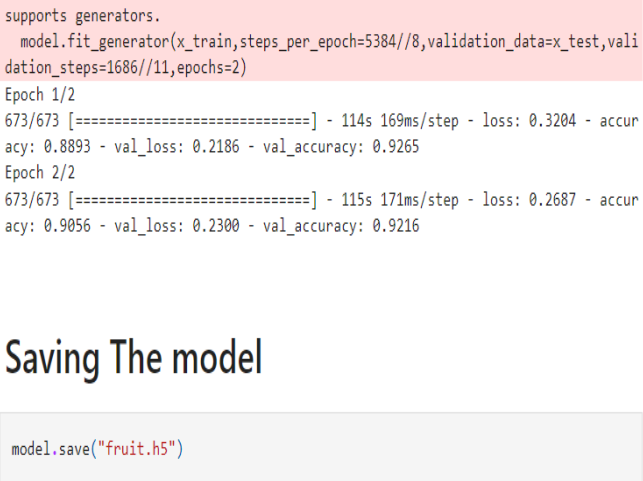



PROJECT DEVELOPMENT PHASE MODEL PERFORMANCE TEST

Date	15 November 2022
Team ID	PNT2022TMID47415
Project Name	Fertilizer Recommendation System For Disease Prediction
Maximum Marks	10 Marks

MODEL PERFORMANCE TESTING

S.N O.	PARAMETER	VALUES	SCREENSHOT
1.	Model Summary	Total params: 16,266,694 Trainable params: 16,266,694 Non-trainable params: 0	 <pre> Model: "sequential" Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 126, 126, 32) 896 max_pooling2d (MaxPooling2D) (None, 63, 63, 32) 0 flatten (Flatten) (None, 127008) 0 dense (Dense) (None, 128) 16257152 dense_1 (Dense) (None, 64) 8256 dense_2 (Dense) (None, 6) 390 Total params: 16,266,694 Trainable params: 16,266,694 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – 0.9056 Validation Accuracy - 0.9215	 <pre> supports generators. model.fit_generator(x_train,steps_per_epoch=5384//8,validation_data=x_test,validation_steps=1686//11,epochs=2) Epoch 1/2 673/673 [=====] - 114s 169ms/step - loss: 0.3204 - accuracy: 0.8893 - val_loss: 0.2186 - val_accuracy: 0.9265 Epoch 2/2 673/673 [=====] - 115s 171ms/step - loss: 0.2687 - accuracy: 0.9056 - val_loss: 0.2300 - val_accuracy: 0.9216 Saving The model model.save("fruit.h5") </pre>

3.	Confidence Score (Only Yolo Projects)	Class Detected - Correct Confidence Score - 100	<pre>In [29]: img = image.load_img(r"/home/wsuser/work/Dataset Plant Disease/fruit-dataset/fru: img</pre> <p>Out[29]:</p>  <pre>In [30]: x=image.img_to_array(img) x=np.expand_dims(x,axis=0) pred = np.argmax(model.predict(x),axis=1) index=['Apple__Black_rot', 'Apple__healthy', 'Corn_(maize)__Northern_Leaf_Blight', 'Corn_(maize)__healthy', 'Peach__Bacterial_spot', 'Peach__healthy'] index[pred[0]]</pre> <p>Out[30]: 'Apple healthy'</p>
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