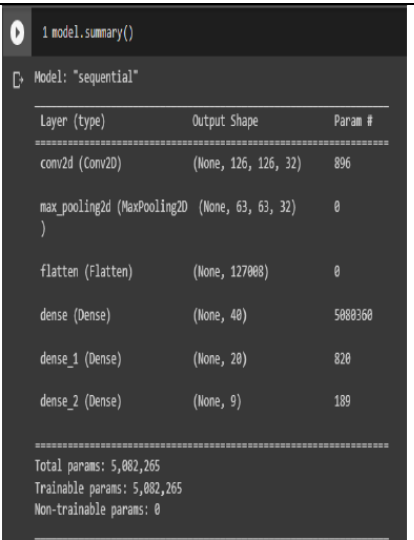
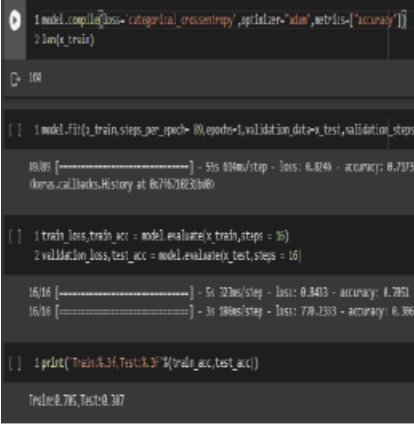


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID15637
Project Name	Project - Fertilizers Recommendation System For Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	conv2d (Conv2D) (None, 126, 126, 32) 896 max_pooling2d (MaxPooling2D (None, 63, 63, 32) 0) flatten (Flatten) (None, 127008) 0 dense (Dense) (None, 40) 5080360 dense_1 (Dense) (None, 20) 820 dense_2 (Dense) (None, 9) 189 ===== ===== Total params: 5,082,265 Trainable params: 5,082,265 Non-trainable params: 0	 <pre> 1 model.summary() 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, 40) 5080360 dense_1 (Dense) (None, 20) 820 dense_2 (Dense) (None, 9) 189 ----- Total params: 5,082,265 Trainable params: 5,082,265 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy - print("Train: %.3f, Test: %.3f" % (train_acc, test_acc)) Train: 0.705, Test: 0.307 Validation Accuracy - 16/16 [=====] - 5s 323ms/step - loss: 0.8433 - accuracy: 0.7051 16/16 [=====] - 3s 186ms/step - loss: 770.2333 - accuracy: 0.3066	 <pre> 1 model.compile(loss='categorical_crossentropy', optimizer='adam', metrics=['accuracy']) 2 train(x_train) 16/16 [=====] - 5s 323ms/step - loss: 0.8433 - accuracy: 0.7051 0ms: call backs.History at 8674670231b0 1 train_loss, train_acc = model.evaluate(x_train, steps = 16) 2 validation_loss, test_acc = model.evaluate(x_test, steps = 16) 16/16 [=====] - 5s 323ms/step - loss: 0.8433 - accuracy: 0.7051 16/16 [=====] - 3s 186ms/step - loss: 770.2333 - accuracy: 0.3066 1 print("Train: %.3f, Test: %.3f" % (train_acc, test_acc)) Train: 0.705, Test: 0.307 </pre>
3.	Confidence Score (Only Yolo Projects)	Class Detected - 9 Confidence Score - 9	

