Project Development Phase

Model Performance Test

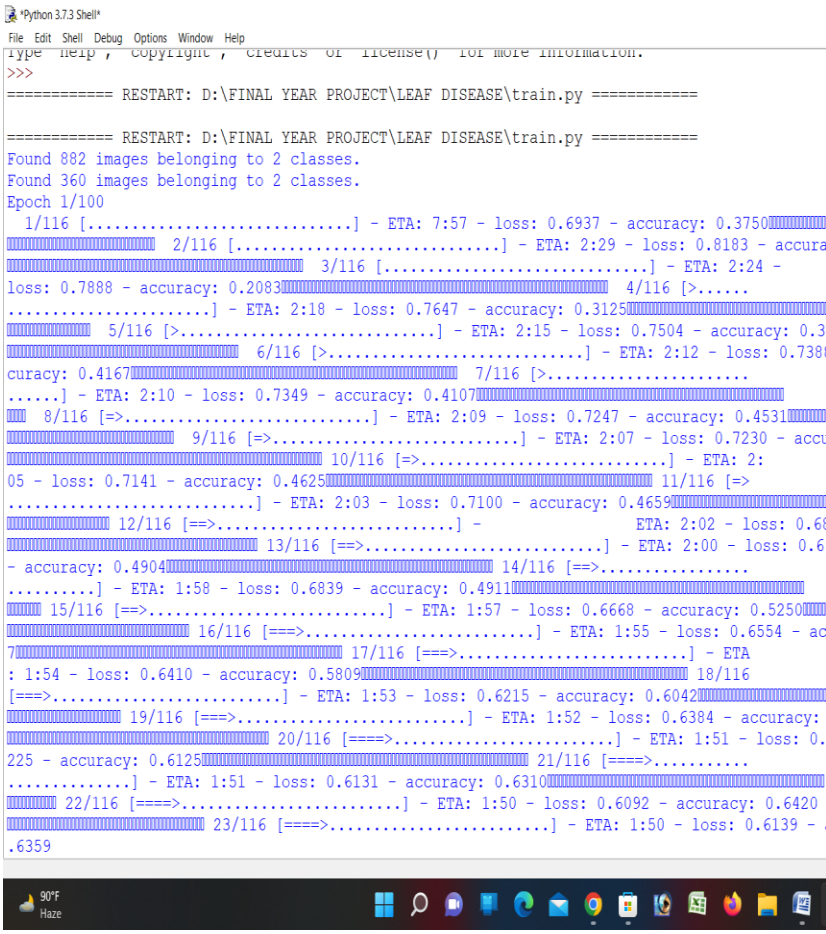
Date	18 November 2022
Team ID	PNT2022TMID42096
Project Name	Fertilizers Recommendation system for disease Prediction
Maximum Marks	10 Marks

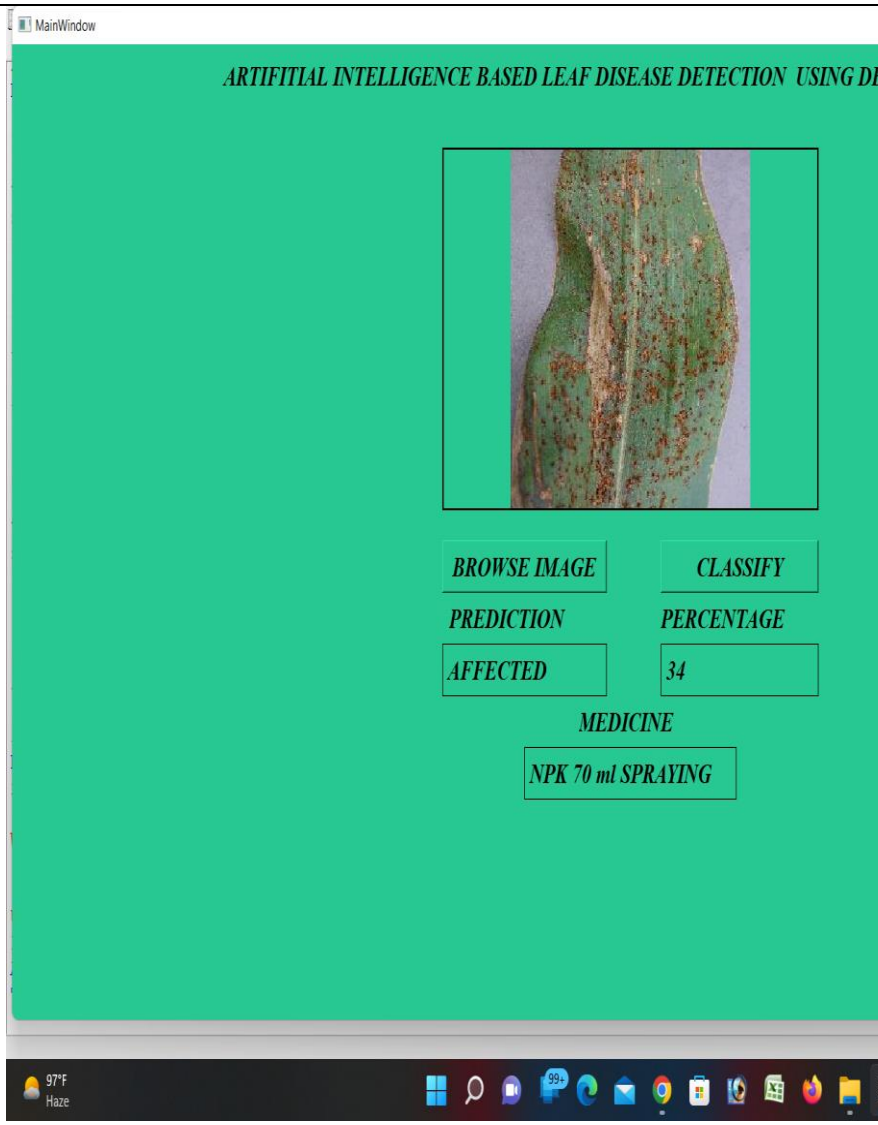
Model Performance Testing:

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

s.no.	parameter	values	screenshot

1.	Model summary	Total params: 1,572,768
		Trainable params: 1,572,768
		Non-trainable params:0
			`model.summary()`
			`Model: "sequential"`
			`_____`
			`Layer (type) Output Shape`
			`=====`
			`conv2d (Conv2D) (None, 510, 510, 16)`
			`max_pooling2d (MaxPooling2D (None, 255, 255, 16)`
			`)`
			`conv2d_1 (Conv2D) (None, 253, 253, 32)`
			`max_pooling2d_1 (MaxPooling (None, 126, 126, 32)`
			`2D)`
			`conv2d_2 (Conv2D) (None, 124, 124, 64)`
			`max_pooling2d_2 (MaxPooling (None, 62, 62, 64)`
			`2D)`
			`conv2d_3 (Conv2D) (None, 60, 60, 128)`
			`max_pooling2d_3 (MaxPooling (None, 30, 30, 128)`
			`2D)`
			`conv2d_4 (Conv2D) (None, 28, 28, 256)`
			`max_pooling2d_4 (MaxPooling (None, 14, 14, 256)`
			`2D)`

			conv2d_5 (Conv2D) (None, 12, 12, 512) max_pooling2d_5 (MaxPooling2D) (None, 6, 6, 512) flatten (Flatten) (None, 18432) === Total params: 1,572,768 Trainable params: 1,572,768 Non-trainable params: 0 _____
2.	Accuracy	Training Accuracy:64.20 Validation Accuracy:80	Epoch 1/100 111/116 [==========================>..] - ETA: 11s - loss: 0.7071 - acc WARNING:tensorflow:Your input ran out of data; interrupting training. Make sur generate at least `steps_per_epoch * epochs` batches (in this case, 11600 batches). function when building your dataset. 116/116 [==============================] - 369s 3s/step - loss: 0.7071 val_accuracy: 0.8000 <keras.callbacks.History at 0x7ff1d8e88590> 

3.	Confidence Score (Only Yolo Projects)	Class Detected: 80% Confidence Score : 95%	

.

Model Summary:

model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 510, 510, 16)	448
max_pooling2d (MaxPooling2D	(None, 255, 255, 16)	0

)

conv2d_1 (Conv2D) (None, 253, 253, 32) 4640

max_pooling2d_1 (MaxPooling (None, 126, 126, 32) 0
2D)

conv2d_2 (Conv2D) (None, 124, 124, 64) 18496

max_pooling2d_2 (MaxPooling (None, 62, 62, 64) 0
2D)

conv2d_3 (Conv2D) (None, 60, 60, 128) 73856

max_pooling2d_3 (MaxPooling (None, 30, 30, 128) 0
2D)

conv2d_4 (Conv2D) (None, 28, 28, 256) 295168

max_pooling2d_4 (MaxPooling (None, 14, 14, 256) 0
2D)

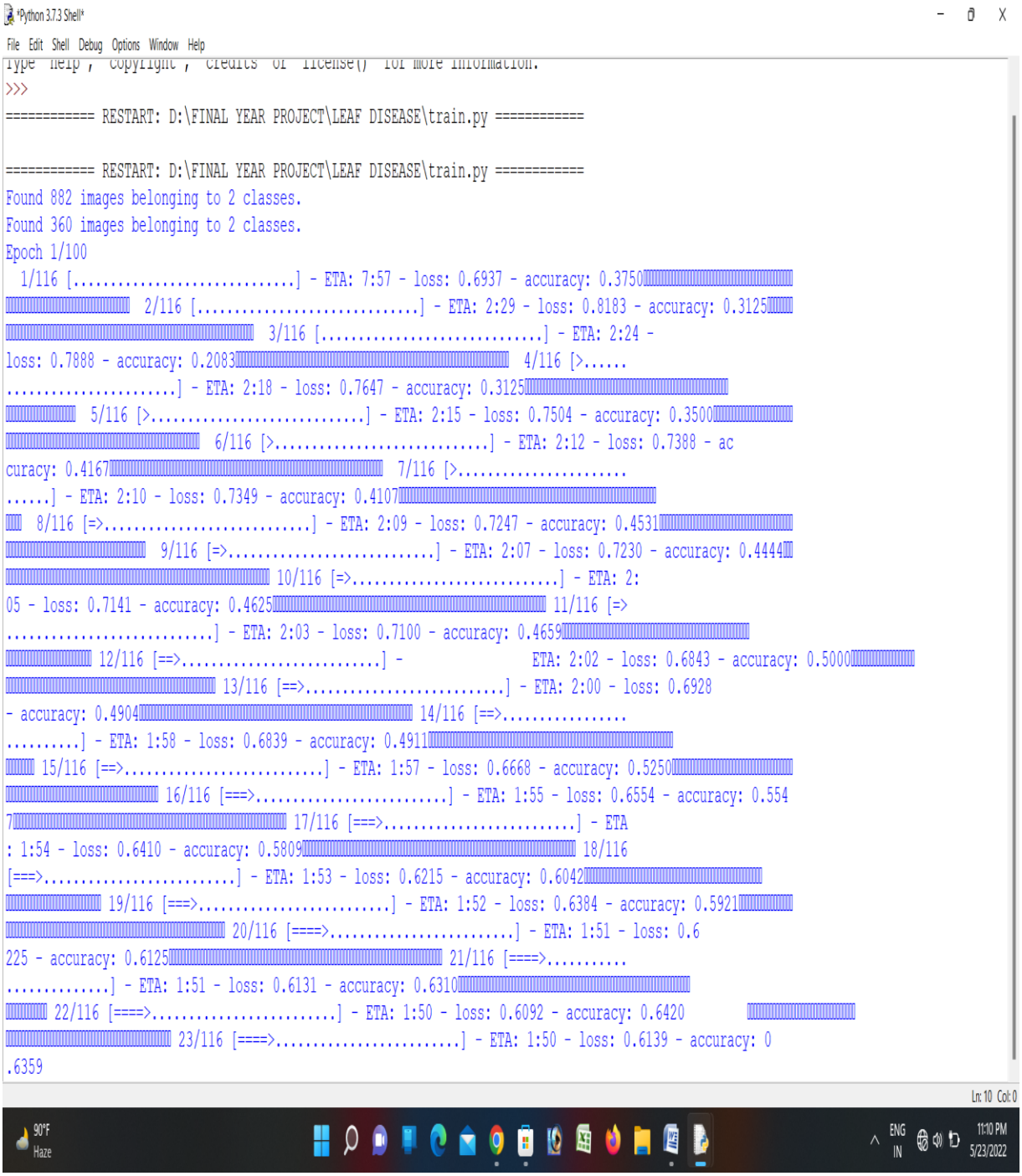
conv2d_5 (Conv2D) (None, 12, 12, 512) 1180160

max_pooling2d_5 (MaxPooling (None, 6, 6, 512) 0
2D)

flatten (Flatten) (None, 18432) 0

===
Total params: 1,572,768
Trainable params: 1,572,768
Non-trainable params: 0
_____

Accuracy:


Python 3.7.3 Shell
File Edit Shell Debug Options Window Help
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:\FINAL YEAR PROJECT\LEAF DISEASE\train.py ==========
========== RESTART: D:\FINAL YEAR PROJECT\LEAF DISEASE\train.py ==========
Found 882 images belonging to 2 classes.
Found 360 images belonging to 2 classes.
Epoch 1/100
1/116 [.....] - ETA: 7:57 - loss: 0.6937 - accuracy: 0.3750
2/116 [.....] - ETA: 2:29 - loss: 0.8183 - accuracy: 0.3125
3/116 [.....] - ETA: 2:24 - loss: 0.7888 - accuracy: 0.2083
4/116 [.....] - ETA: 2:18 - loss: 0.7647 - accuracy: 0.3125
5/116 [.....] - ETA: 2:15 - loss: 0.7504 - accuracy: 0.3500
6/116 [.....] - ETA: 2:12 - loss: 0.7388 - accuracy: 0.4167
7/116 [.....] - ETA: 2:10 - loss: 0.7349 - accuracy: 0.4107
8/116 [=>.....] - ETA: 2:09 - loss: 0.7247 - accuracy: 0.4531
9/116 [=>.....] - ETA: 2:07 - loss: 0.7230 - accuracy: 0.4444
10/116 [=>.....] - ETA: 2:05 - loss: 0.7141 - accuracy: 0.4625
11/116 [=>.....] - ETA: 2:03 - loss: 0.7100 - accuracy: 0.4659
12/116 [==>.....] - ETA: 2:02 - loss: 0.6843 - accuracy: 0.5000
13/116 [==>.....] - ETA: 2:00 - loss: 0.6928 - accuracy: 0.4904
14/116 [==>.....] - ETA: 1:58 - loss: 0.6839 - accuracy: 0.4911
15/116 [==>.....] - ETA: 1:57 - loss: 0.6668 - accuracy: 0.5250
16/116 [===>.....] - ETA: 1:55 - loss: 0.6554 - accuracy: 0.5547
17/116 [===>.....] - ETA: 1:54 - loss: 0.6410 - accuracy: 0.5809
18/116 [===>.....] - ETA: 1:53 - loss: 0.6215 - accuracy: 0.6042
19/116 [===>.....] - ETA: 1:52 - loss: 0.6384 - accuracy: 0.5921
20/116 [====>.....] - ETA: 1:51 - loss: 0.6225 - accuracy: 0.6125
21/116 [====>.....] - ETA: 1:51 - loss: 0.6131 - accuracy: 0.6310
22/116 [====>.....] - ETA: 1:50 - loss: 0.6092 - accuracy: 0.6420
23/116 [====>.....] - ETA: 1:50 - loss: 0.6139 - accuracy: 0.6359
Ln: 10 Col: 0
90°F Haze
ENG IN
11:10 PM 5/23/2022

Confidence Score: