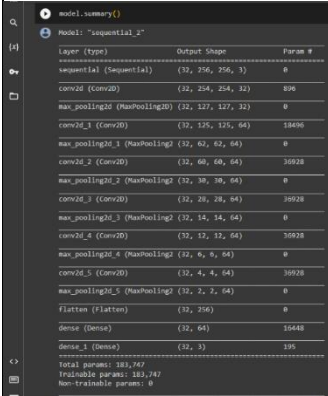
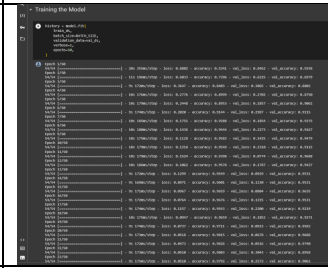


Project Development Phase Model Performance Test

Date	9th November 2023
Team ID	592472
Project Name	Project – Potato Disease Classification
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: 183,747 Trainable params: 183,747 Non-trainable params: 0	
2.	Accuracy	Training Accuracy - 99.65 Validation Accuracy – 98.44	
3.	Confidence Score (Only Yolo Projects)	Class Detected - NA Confidence Score - NA	

Screenshots

Model Summary

```
model.summary()
```

Layer (type)	Output Shape	Param #
sequential (Sequential)	(32, 256, 256, 3)	0
conv2d (Conv2D)	(32, 254, 254, 32)	896
max_pooling2d (MaxPooling2D)	(32, 127, 127, 32)	0
conv2d_1 (Conv2D)	(32, 125, 125, 64)	18496
max_pooling2d_1 (MaxPooling2D)	(32, 62, 62, 64)	0
conv2d_2 (Conv2D)	(32, 60, 60, 64)	36928
max_pooling2d_2 (MaxPooling2D)	(32, 30, 30, 64)	0
conv2d_3 (Conv2D)	(32, 28, 28, 64)	36928
max_pooling2d_3 (MaxPooling2D)	(32, 14, 14, 64)	0
conv2d_4 (Conv2D)	(32, 12, 12, 64)	36928
max_pooling2d_4 (MaxPooling2D)	(32, 6, 6, 64)	0
conv2d_5 (Conv2D)	(32, 4, 4, 64)	36928
max_pooling2d_5 (MaxPooling2D)	(32, 2, 2, 64)	0
Flatten (Flatten)	(32, 256)	0
dense (Dense)	(32, 64)	16448
dense_1 (Dense)	(32, 3)	195

=====

Total params: 183,747
Trainable params: 183,747
Non-trainable params: 0

Accuracy score

```
history = model.fit(
    train_ds,
    batch_size=batch_size,
    validation_data=val_ds,
    verbose=1,
    epochs=50,
)
```

Epoch	train_loss	train_acc	val_loss	val_acc
Epoch 1/50	0.8802	0.5341	0.8462	0.5938
Epoch 2/50	0.6833	0.7396	0.6225	0.6979
Epoch 3/50	0.3647	0.8403	0.3865	0.8882
Epoch 4/50	0.2776	0.8999	0.2762	0.8758
Epoch 5/50	0.2448	0.8953	0.1857	0.9862
Epoch 6/50	0.2828	0.9144	0.2367	0.9115
Epoch 7/50	0.1751	0.9288	0.1854	0.9275
Epoch 8/50	0.1436	0.9444	0.2273	0.9167
Epoch 9/50	0.1128	0.9553	0.1425	0.9479
Epoch 10/50	0.1218	0.9549	0.2218	0.9115
Epoch 11/50	0.1534	0.9398	0.8774	0.9688
Epoch 12/50	0.1862	0.9578	0.1787	0.9427
Epoch 13/50	0.1299	0.9549	0.8929	0.9531
Epoch 14/50	0.8973	0.9681	0.1238	0.9531
Epoch 15/50	0.8967	0.9659	0.8884	0.9635
Epoch 16/50	0.8764	0.9676	0.1225	0.9531
Epoch 17/50	0.1157	0.9543	0.2288	0.9219
Epoch 18/50	0.8947	0.9659	0.1852	0.9271
Epoch 19/50	0.8727	0.9711	0.8922	0.9562
Epoch 20/50	0.8518	0.9815	0.8678	0.9688
Epoch 21/50	0.8473	0.9826	0.8516	0.9748
Epoch 22/50	0.8518	0.9883	0.3843	0.8958
Epoch 23/50	0.8518	0.9792	0.2573	0.9862