Project Development Phase Model Performance Test

Date	09 November 2023	
Team ID	592247	
Project Name	Deep Learning Model For Detecting Diseases In Tea Leaves	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values
1.	Accuracy	Training Accuracy – 83.12% Validation Accuracy – 79.54%

Screenshot:

```
23/23 [====
Epoch 2/20
23/23 [====
Epoch 3/20
                                         - 378s 16s/step - loss: 0.9977 - accuracy: 0.6385 - val_loss: 1.1958 - val_accuracy: 0.5287
                                          - 373s 16s/step - loss: 0.9142 - accuracy: 0.6582 - val_loss: 1.1785 - val_accuracy: 0.5230
23/23 [====
Epoch 4/20
                                            378s 17s/step - loss: 0.8304 - accuracy: 0.6850 - val_loss: 1.1787 - val_accuracy: 0.5230
23/23 [====
Epoch 5/20
                                            387s 17s/step - loss: 0.8175 - accuracy: 0.6920 - val_loss: 1.0315 - val_accuracy: 0.6034
                                            377s 16s/step - loss: 0.7261 - accuracy: 0.7201 - val_loss: 1.1311 - val_accuracy: 0.5057
23/23 [===
Epoch 6/20
23/23 [===
                                          - 378s 17s/step - loss: 0.6895 - accuracy: 0.7454 - val_loss: 1.0417 - val_accuracy: 0.5977
Epoch 7/20
23/23 [====
Epoch 8/20
                                            368s 16s/step - loss: 0.6154 - accuracy: 0.7651 - val loss: 1.0819 - val accuracy: 0.5690
                                            378s 16s/step - loss: 0.5774 - accuracy: 0.7792 - val_loss: 1.1198 - val_accuracy: 0.5977
23/23 [====
Epoch 10/20
                                          - 378s 17s/step - loss: 0.5657 - accuracy: 0.7778 - val loss: 1.0566 - val accuracy: 0.5977
23/23 [====
Epoch 11/20
                                            368s 16s/step - loss: 0.5515 - accuracy: 0.7834 - val_loss: 0.9993 - val_accuracy: 0.5977
23/23 [====
Epoch 12/20
                                          - 377s 16s/step - loss: 0.4368 - accuracy: 0.8439 - val loss: 0.9618 - val accuracy: 0.5862
23/23 [====
Epoch 13/20
                                          - 376s 16s/step - loss: 0.4750 - accuracy: 0.8059 - val_loss: 0.9399 - val_accuracy: 0.6552
                                          - 377s 16s/step - loss: 0.4489 - accuracy: 0.8158 - val loss: 0.9944 - val accuracy: 0.6264
23/23 [====
Epoch 14/20
23/23 [====
Epoch 15/20
                                            376s 17s/step - loss: 0.4529 - accuracy: 0.8200 - val_loss: 0.9982 - val_accuracy: 0.6552
23/23 [====
Epoch 16/20
                                          - 376s 16s/step - loss: 0.4725 - accuracy: 0.8087 - val loss: 1.0498 - val accuracy: 0.6149
23/23 [====
Epoch 17/20
                                          - 377s 16s/step - loss: 0.5128 - accuracy: 0.8031 - val_loss: 0.9353 - val_accuracy: 0.6379
23/23 [====
Epoch 18/20
                                          - 377s 16s/step - loss: 0.4548 - accuracy: 0.8383 - val loss: 0.9923 - val accuracy: 0.6667
23/23 [====
Epoch 19/20
                                            379s 17s/step - loss: 0.5476 - accuracy: 0.7961 - val_loss: 1.1818 - val_accuracy: 0.6264
23/23 [====
Epoch 20/20
                                          - 376s 16s/step - loss: 0.5200 - accuracy: 0.8003 - val_loss: 1.0011 - val_accuracy: 0.6322
                                     ===] - 377s 16s/step - loss: 0.4029 - accuracy: <mark>0.8312</mark> - val_loss: 0.9670 - val_accuracy: 0.6437
23/23 [==:
17/17 [==============================] - 218s 13s/step - loss: 0.5358 - accuracy: 0.7955
Test Loss: 0.5358235836029053
Test Accuracy: 0.7954545617103577
```