Course: Machine Learning(ITCS_6156)

Decision Tree Classification Algorithm Results

Results:

1. **Digital Recognition dataset**

   Number of samples:
   > a. Training data: 3823
   > b. Test data: 1797

The figure below shows the output of program displaying the accuracy.

```
Reading dataset.
(3822, 65)
Training Accuracy:
0.899934597776
***************************:
Testing Accuracy:
0.857461024499
Creating graph image:
Execution completed.
```

Accuracy of Training dataset = 0.899 = 89.99%

Accuracy of Testing dataset = 0.857 = 85.7%

2. **Amazon Dataset**

   The figure below shows the output of program displaying the accuracy.

```
Reading dataset:
(19896,)
(19896,)
After fit transform
Training Accuracy:
0.835783389873
------------------------
Testing Accuracy:
0.835877862595
Execution completed.|
```

Accuracy of Training dataset = 0.8357 = 83.57%

Accuracy of Testing dataset = 0.8358 = 83.58%