Student ID: 1505022

Course: CSE 472 [Machine Learning Sessional]

**Report: Machine Learning Sessional Offline 1**

**Dataset 1**: [Telco Dataset]

**Decision Tree Classifier**

|  |  |  |
| --- | --- | --- |
| ***Performance Measure*** | ***Training (%)*** | ***Testing (%)*** |
| Accuracy |  |  |
| True Positive Rate (Sensitivity, Recall) |  |  |
| True Negative Rate (Specificity) |  |  |
| Positive Prediction Value (Precision) |  |  |
| False Discovery Rate |  |  |
| F1 Score |  |  |

**AdaBoost**

|  |  |  |
| --- | --- | --- |
| *Number of boosting rounds* | *Training (%)* | *Testing (%)* |
| 5 |  |  |
| 10 |  |  |
| 15 |  |  |
| 20 |  |  |

**Dataset 2**: [Adult]

**Decision Tree Classifier**

|  |  |  |
| --- | --- | --- |
| *Performance Measure* | *Training* | *Testing* |
| Accuracy |  |  |
| True Positive Rate (Sensitivity, Recall) |  |  |
| True Negative Rate (Specificity) |  |  |
| Positive Prediction Value (Precision) |  |  |
| False Discovery Rate |  |  |
| F1 Score |  |  |

**AdaBoost**

|  |  |  |
| --- | --- | --- |
| *Number of boosting rounds* | *Training* | *Testing* |
| 5 |  |  |
| 10 |  |  |
| 15 |  |  |
| 20 |  |  |

**Dataset 3**: [Credit-Card]

**Decision Tree Classifier**

|  |  |  |
| --- | --- | --- |
| Performance Measure | Training | Testing |
| Accuracy |  |  |
| True Positive Rate (Sensitivity, Recall) |  |  |
| True Negative Rate (Specificity) |  |  |
| Positive Prediction Value (Precision) |  |  |
| False Discovery Rate |  |  |
| F1 Score |  |  |

**AdaBoost**

|  |  |  |
| --- | --- | --- |
| Number of boosting rounds | Training | Testing |
| 5 |  |  |
| 10 |  |  |
| 15 |  |  |
| 20 |  |  |