**Accuracy Report for Assignment2**

**Accuracy of the Decision Tree before pruning**

Test Set 1:

**Based on the Information Gain Heuristic:** 74.55%

Test Set 2:

**Based on the Information Gain Heuristic:** 72.3333%

**Accuracy of the Decision Tree after pruning**

Test Set 1:

|  |  |  |
| --- | --- | --- |
| L | K | Accuracy |
| 100 | 10 | 74.10 |
| 150 | 20 | 74.25 |
| 90 | 30 | 74.40 |
| 30 | 5 | 74.55 |
| 200 | 20 | 74.15 |
| 500 | 70 | 74.4 |
| 330 | 100 | 74.3 |
| 290 | 20 | 74.3 |
| 400 | 30 | 74.15 |
| 10 | 5 | 74.15 |

Test Set 2:

|  |  |  |
| --- | --- | --- |
| L | K | Accuracy |
| 100 | 10 | 72.33 |
| 150 | 20 | 71.83 |
| 90 | 30 | 72.0 |
| 30 | 5 | 72.33 |
| 200 | 20 | 72.0 |
| 500 | 70 | 72.33 |
| 330 | 100 | 72.33 |
| 290 | 100 | 72.0 |
| 400 | 30 | 72.16 |
| 10 | 5 | 72.33 |