

## **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