**Report on different values of L and K on the pruned tree**

**For Data Set 1:**

|  |  |  |  |
| --- | --- | --- | --- |
| **L** | **K** | **Information Gain Heuristic** | **Variance Impurity Heuristic** |
| **Accuracy after pruning on validation set** | **Accuracy after pruning on validation set** |
| 2000 | 315 | 76.588295 | 77.18859 |
| 2500 | 200 | 77.03852 | 76.988495 |
| 1000 | 564 | 76.63832 | 77.48875 |
| 1050 | 505 | 77.58879 | 77.13857 |
| 1500 | 465 | 77.73887 | 76.43822 |
| 3000 | 412 | 77.43872 | 76.53827 |
| 2750 | 340 | 76.38819 | 76.38819 |
| 1004 | 894 | 77.23862 | 76.78839 |
| 1200 | 845 | 76.73837 | 76.38819 |
| 1452 | 564 | 76.88844 | 76.53827 |

**For Data Set 2:**

|  |  |  |  |
| --- | --- | --- | --- |
| **L** | **K** | **Information Gain Heuristic** | **Variance Impurity Heuristic** |
| **Accuracy after pruning on validation set** | **Accuracy after pruning on validation set** |
| 2000 | 315 | 77.96327 | 78.96494 |
| 2500 | 200 | 78.63105 | 78.96494 |
| 1000 | 564 | 78.4641 | 78.798 |
| 1050 | 505 | 78.297165 | 79.13189 |
| 1500 | 465 | 78.4641 | 79.79967 |
| 3000 | 412 | 78.297165 | 78.798 |
| 2750 | 340 | 78.13022 | 79.13189 |
| 1004 | 894 | 78.4641 | 79.29883 |
| 1200 | 845 | 77.96327 | 78.96494 |
| 1452 | 564 | 78.13022 | 79.29883 |