

Machine learning Assignment2 Report

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Accuracies

- Accuracy of tree constructed using information gain before pruning: 75.85%
- Accuracy of tree constructed using information gain after pruning: 77.45%

Accuracy of tree constructed using impurity gain

L value	K value	Accuracy before pruning	Accuracy after pruning
2	4	76.85%	77.75%
3	5	78.0%	78.7%
4	8	78.0%	78.5%
5	9	78.0%	78.05%
6	8	78.0%	79.45%
7	10	78.0%	78.05%
8	12	78.0%	77.95%
9	18	78.0%	79.1%
10	16	78.0%	78.9%
11	25	78.0%	79.2%