

REPORT

DATASET1: (Without Pruning)

Accuracy using Information Gain heuristic on Validation Data Set	75.85%
Accuracy using Variance Impurity heuristic on Validation Data Set	75.35%

Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

DATASET1: (With Pruning)

L = 2	K = 1
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 2	K = 2
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 7	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.0%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 5	K = 2
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 4	K = 6
Accuracy using Information Gain heuristic on Test Data Set	76.0%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 3	K = 4
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 3	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.0%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 2	K = 3
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 1	K = 2
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

L = 1	K = 3
Accuracy using Information Gain heuristic on Test Data Set	75.9%
Accuracy using Variance Impurity heuristic on Test Data Set	75.75%

DATASET2: (Without Pruning)

Accuracy using Information Gain heuristic on Validation Data Set	72.33%
Accuracy using Variance Impurity heuristic on Validation Data Set	72.5%

Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

DATASET2: (With Pruning)

L = 2	K = 1
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 2	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 7	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 5	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%
L = 4	K = 6
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 3	K = 4
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 3	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 2	K = 3
Accuracy using Information Gain heuristic on Test Data Set	77.5%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 1	K = 2
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%

L = 1	K = 3
Accuracy using Information Gain heuristic on Test Data Set	77.33%
Accuracy using Variance Impurity heuristic on Test Data Set	76.83%