## **REPORT**

## **DATASET1: (Without Pruning)**

Accuracy using Information Gain heuristic on Valid	ation Data Set	75.85%		
Accuracy using Variance Impurity heuristic on Validation Data Set		75.35%		
Accuracy using variance impurity neuristic on valuation bata set 75.55%				
Accuracy using Information Gain heuristic on Test	Data Sot	75.9%		
Accuracy using Information Gain Heuristic on Test		75.75%		
Accuracy using variance impurity neuristic on Test	Data Set	/5./5%		
DATASET1: (With Pruning)				
L = 2				
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	1	77.0%		
Accuracy using Variance Impurity heuristic on Test		75.75%		
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L=5	K = 2			
Accuracy using Information Gain heuristic on Test		75.9%		
Accuracy using Variance Impurity heuristic on Test		75.75%		
		176776		
L = 4	K = 6			
Accuracy using Information Gain heuristic on Test	1	76.0%		
Accuracy using Variance Impurity heuristic on Test Data Set		75.75%		
Accuracy using variance imparity hearistic on rest	Data SCt	73.7370		
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%		
Accuracy using variance impurity neuristic on rest Data Set /5.75%				
L=3	K = 2			
		77.0%		
Accuracy using Information Gain heuristic on Test Data Set				
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%		
		1.5		
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		75.9%		
Accuracy using Variance Impurity heuristic on Test		75.75%		
DATASET2: (Without Pruning)  Accuracy using Information Gain heuristic on Validation Data Set 72.33%				
Accuracy using Variance Impurity heuristic on Valid		72.5%		
Accuracy using Information Gain heuristic on Test Data Set		77.33%		
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Accuracy using Variance Impurity heuristic on Test	Data Set	76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (	Data Set  With Pruning)  K = 1	76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test	With Pruning)  K = 1  Data Set	76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (	With Pruning)  K = 1  Data Set	76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test	With Pruning)  K = 1  Data Set	76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  K = 2	76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2	With Pruning)    K = 1   Data Set   Data Set   K = 2   Data Set	76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test	With Pruning)    K = 1   Data Set   Data Set   K = 2   Data Set	76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test	With Pruning)    K = 1   Data Set   Data Set   K = 2   Data Set	76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  K = 2  Data Set  Data Set  Data Set  K = 2  K = 2	76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7	With Pruning)  K = 1  Data Set  Data Set  Data Set  K = 2  Data Set  Data Set  Data Set  Data Set	76.83%  77.33%  76.83%  77.33%  76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  Data Set  K = 2  Data Set  Data Set  Data Set  Data Set	77.33% 76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5	With Pruning)    K = 1   Data Set   K = 2   Data Set   Data Set   Data Set	77.33% 76.83% 77.33% 76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5  Accuracy using Information Gain heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  Data Set  Data Set  Data Set  Data Set  K = 2  Data Set  Data Set  Data Set  Data Set  Data Set	77.33% 76.83% 77.33% 76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  Accuracy using Variance Impurity heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  Data Set  K = 2  Data Set  Data Set  K = 2  Data Set  Data Set  Data Set  Data Set  Data Set	77.33% 76.83% 77.33% 76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5  Accuracy using Variance Impurity heuristic on Test  L = 4	With Pruning)    K = 1   Data Set   Data Set	77.33% 76.83% 77.33% 76.83% 77.33% 76.83%		
Accuracy using Variance Impurity heuristic on Test  DATASET2: (  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 2  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 7  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  L = 5  Accuracy using Information Gain heuristic on Test  Accuracy using Information Gain heuristic on Test  Accuracy using Variance Impurity heuristic on Test  Accuracy using Variance Impurity heuristic on Test	With Pruning)  K = 1  Data Set  Data Set  Data Set  Data Set  M = 2  Data Set	77.33% 76.83% 77.33% 76.83% 77.33% 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%