

Dataset

https://raw.githubusercontent.com/urwithajit9/ClaMP/master/dataset/ClaMP_Integrated-5184.arff

Hoeffding Tree

The screenshot shows the Weka Explorer interface with the Hoeffding Tree classifier selected. The 'Test options' section shows 'Cross-validation' with 'Folds' set to 10. The 'Classifier output' section displays the following results:

Time taken to build model: 0.43 seconds

=== Stratified cross-validation ===
=== Summary ===

Metric	Value	Percentage
Correctly Classified Instances	4255	81.6699 %
Incorrectly Classified Instances	955	18.3301 %
Kappa statistic	0.6276	
Mean absolute error	0.2487	
Root mean squared error	0.3626	
Relative absolute error	49.8411 %	
Root relative squared error	72.5837 %	
Total Number of Instances	5210	

--- Detailed Accuracy By Class ---

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
0	0.652	0.032	0.549	0.652	0.772	0.659	0.861	0.851	0
1	0.968	0.348	0.752	0.968	0.847	0.659	0.861	0.844	1
Weighted Avg.	0.817	0.198	0.846	0.817	0.811	0.659	0.861	0.848	

=== Confusion Matrix ===

a \ b	0	1	<-- classified as
1621 867	1621	867	a = 0
88 2634	88	2634	b = 1

Decision Stump

The screenshot shows the Weka Explorer interface with the Decision Stump classifier selected. The 'Test options' section shows 'Cross-validation' with 'Folds' set to 10. The 'Classifier output' section displays the following results:

Time taken to build model: 0.17 seconds

=== Stratified cross-validation ===
=== Summary ===

Metric	Value	Percentage
Correctly Classified Instances	4075	78.215 %
Incorrectly Classified Instances	1135	21.785 %
Kappa statistic	0.5554	
Mean absolute error	0.3145	
Root mean squared error	0.3966	
Relative absolute error	63.0312 %	
Root relative squared error	79.4001 %	
Total Number of Instances	5210	

--- Detailed Accuracy By Class ---

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
0	0.563	0.018	0.967	0.563	0.712	0.608	0.764	0.796	0
1	0.982	0.437	0.711	0.982	0.825	0.608	0.764	0.698	1
Weighted Avg.	0.782	0.237	0.833	0.782	0.771	0.608	0.764	0.745	

=== Confusion Matrix ===

a \ b	0	1	<-- classified as
1401 1087	1401	1087	a = 0
48 2674	48	2674	b = 1