

## CREATE THE ARFF FILE FOR THE DIABETES DATABASE AND PERFORM THE RULE BASED CLASSIFICATION

Preprocess **Classify** Cluster Associate Select attributes Visualize

Classifier

Choose **J48 -C 0.25 -M 2**

Test options

☐ Use training set

☐ Supplied test set

☒ Cross-validation Folds

☐ Percentage split %

(Nom) class

Result list (right-click for options)

09:43:25 - functions.Logistic

09:47:10 - trees.J48

Classifier output

Number of Leaves : 20

Size of the tree : 39

Time taken to build model: 0.04 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	567	73.8281 %
Incorrectly Classified Instances	201	26.1719 %
Kappa statistic	0.4164	
Mean absolute error	0.3158	
Root mean squared error	0.4463	
Relative absolute error	69.4841 %	
Root relative squared error	93.6293 %	
Total Number of Instances	768	

=== Detailed Accuracy By Class ===

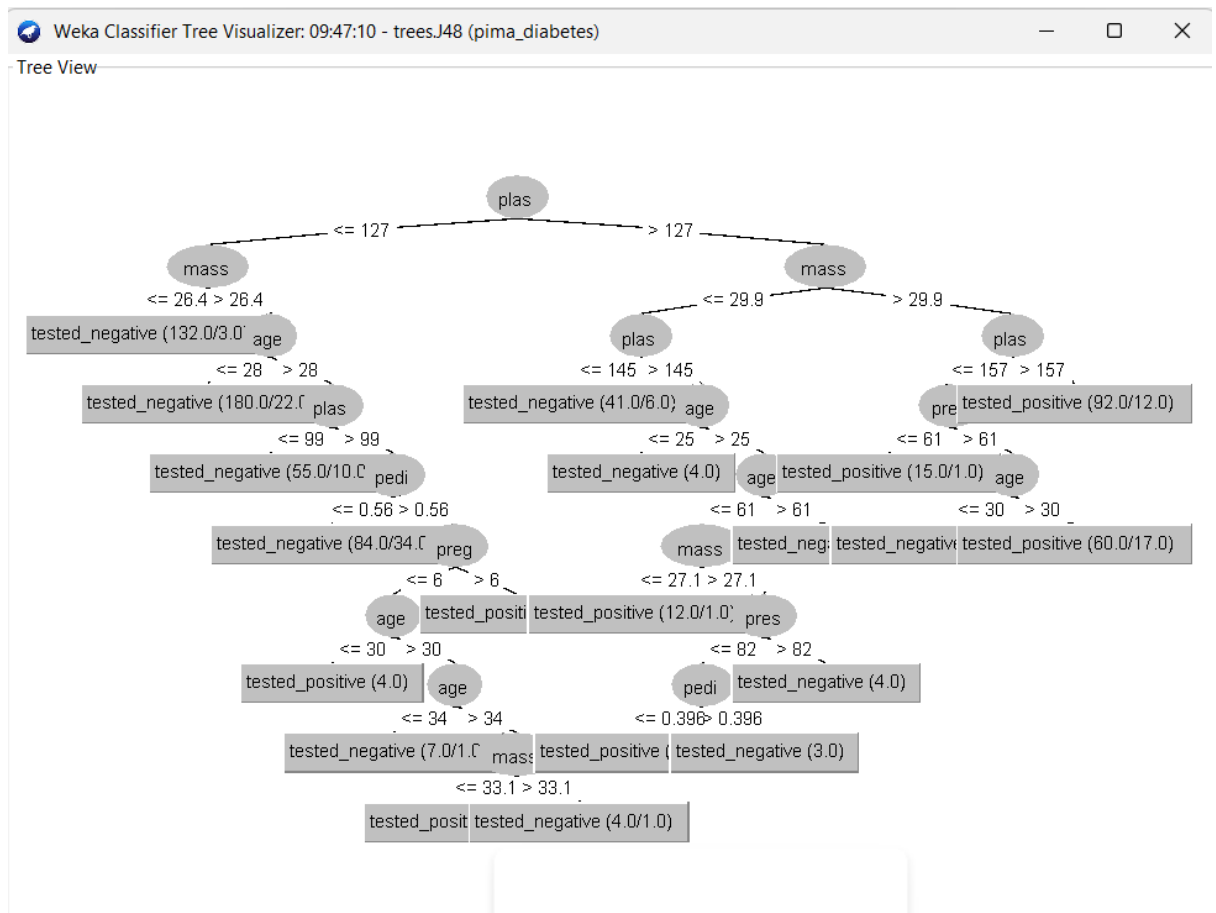
	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.814	0.403	0.790	0.814	0.802	0.417	0.751	0.811	tested_r
	0.597	0.186	0.632	0.597	0.614	0.417	0.751	0.572	tested_r
Weighted Avg.	0.738	0.327	0.735	0.738	0.736	0.417	0.751	0.727	

=== Confusion Matrix ===

```
a b <-- classified as
407 93 | a = tested_negative
108 160 | b = tested_positive
```

Status  
OK

Output info of diabetes by rule based classification.



**Tree view of diabetes on rule based classification.**