

## EX : 6 Build a Decision Tree by using J48algorithm

J48 is a machine learning decision tree classification algorithm based on Iterative Dichotomiser 3. It is very helpful in examine the data categorically and continuously.

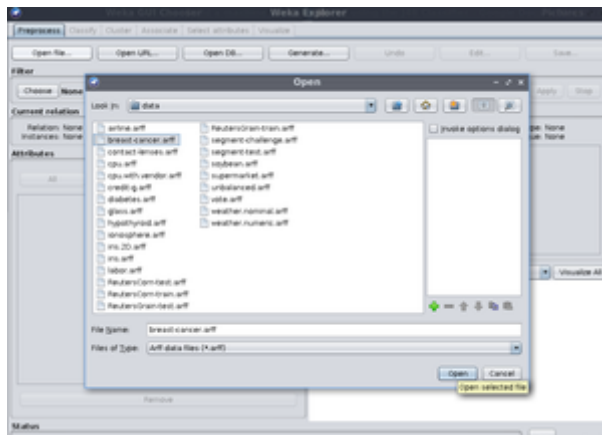
### Steps to follow:

**Step 1:** Create a model using GUI

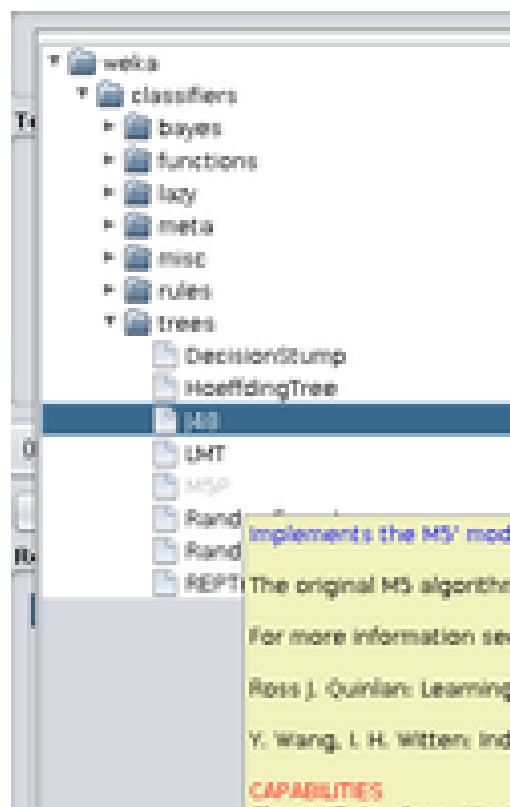
**Step 2:** After opening Weka click on the “Explorer” Tab



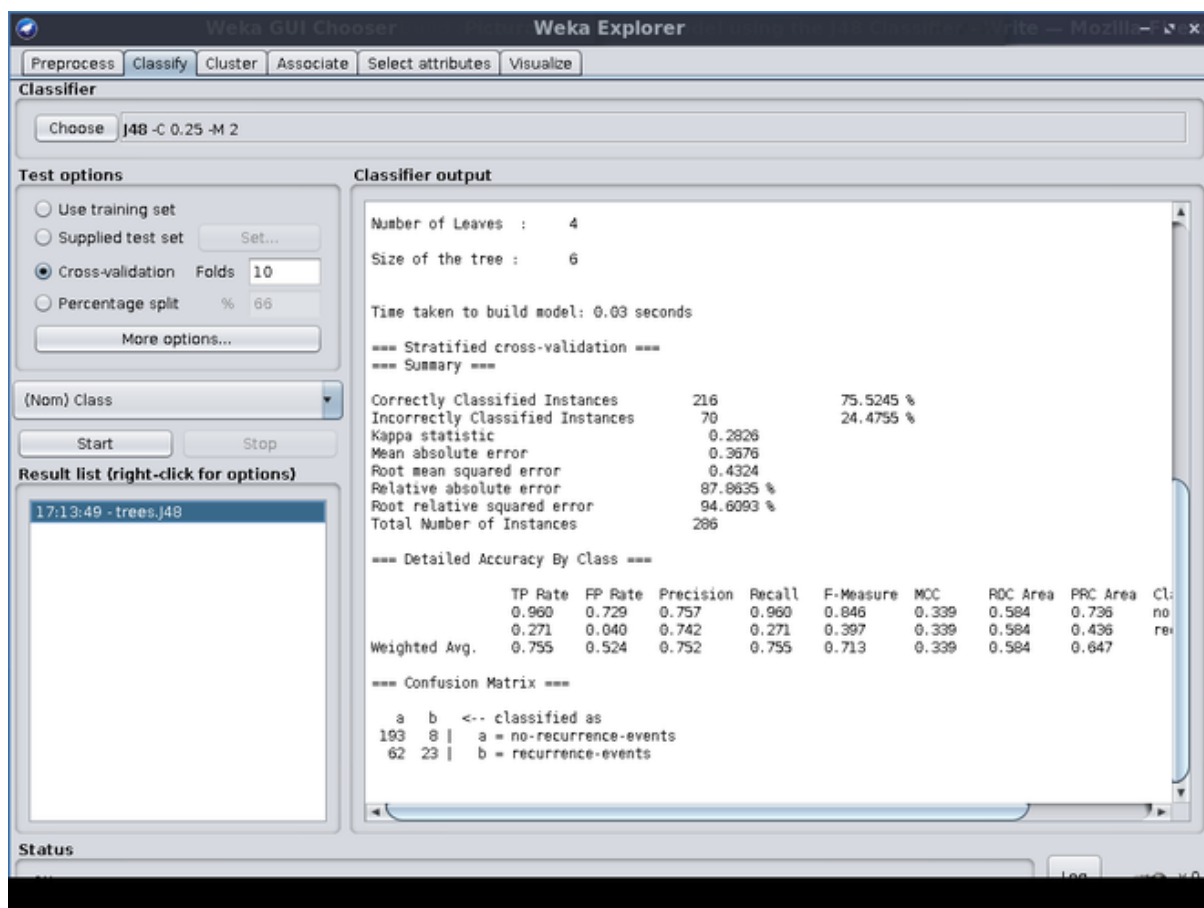
**Step 3:** In the “Preprocess” Tab Click on “Open File” and select the “breast-cancer.arff” file which will be located in the installation path, inside the data folder.



**Step 4:** In the “Classify” tab click on the choose button. Now under weka/classifiers/trees/ select J48



**Step 5:** Now one can click on the J48 Classifier selection and play around with it like changing batch size, confidence factor, etc. There under “Test Options” we’ll use the default cross-validation option as folds 10 and click on start.



**RESULT :**