WEKA

A Machine Learning Tool

Weka

- Waikato Environment for Knowledge Analysis

- Fully Java-based (Weka 3)

- Includes
  - Tools for data visualization
  - Algorithm for data analysis

What Can Be Done

- Weka supports data processing, clustering, classification, regression, visualization, and feature selection

- Data must be provided in one flat file or relation

- Weka provides access to SQL database using Java Database Connectivity

Why Weka

- Free availability under GNU public license

- Portability

- Comprehensive collection of data processing and modeling techniques

- Easy to use graphical interface along with library

- Extension packages

Example Using GUI

Suppose, we want to classify some data using NaiveBayes Classification.

■ We need the data in CSV format. Here is a row of my CSV file:

3.21,2.44,0.77,1.22,0.66,a

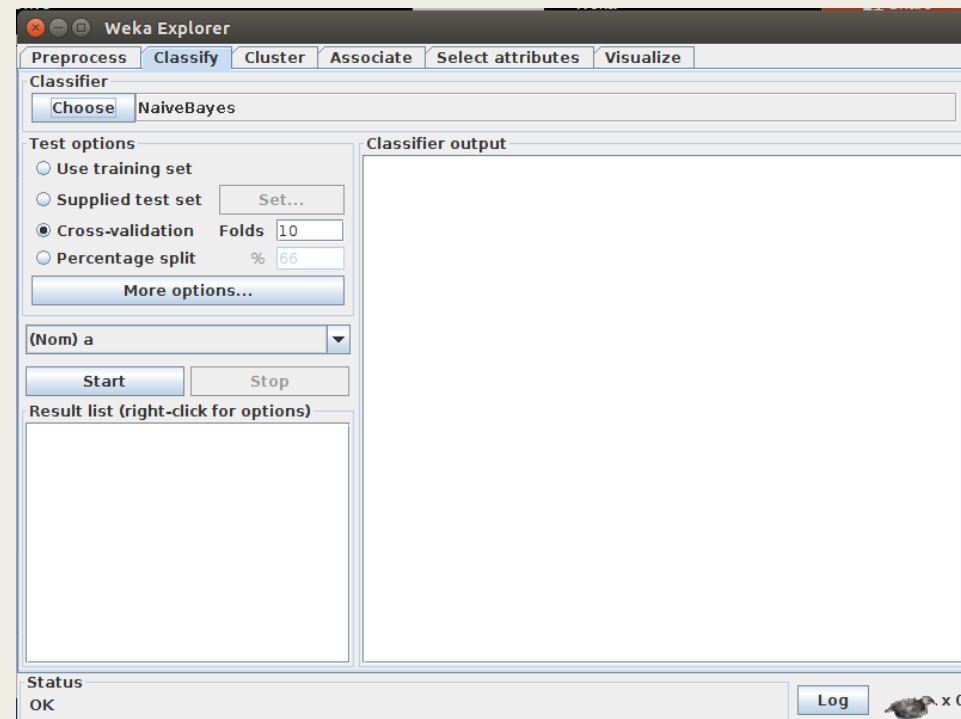Here the last value a indicates its class. The remaining values are feature values

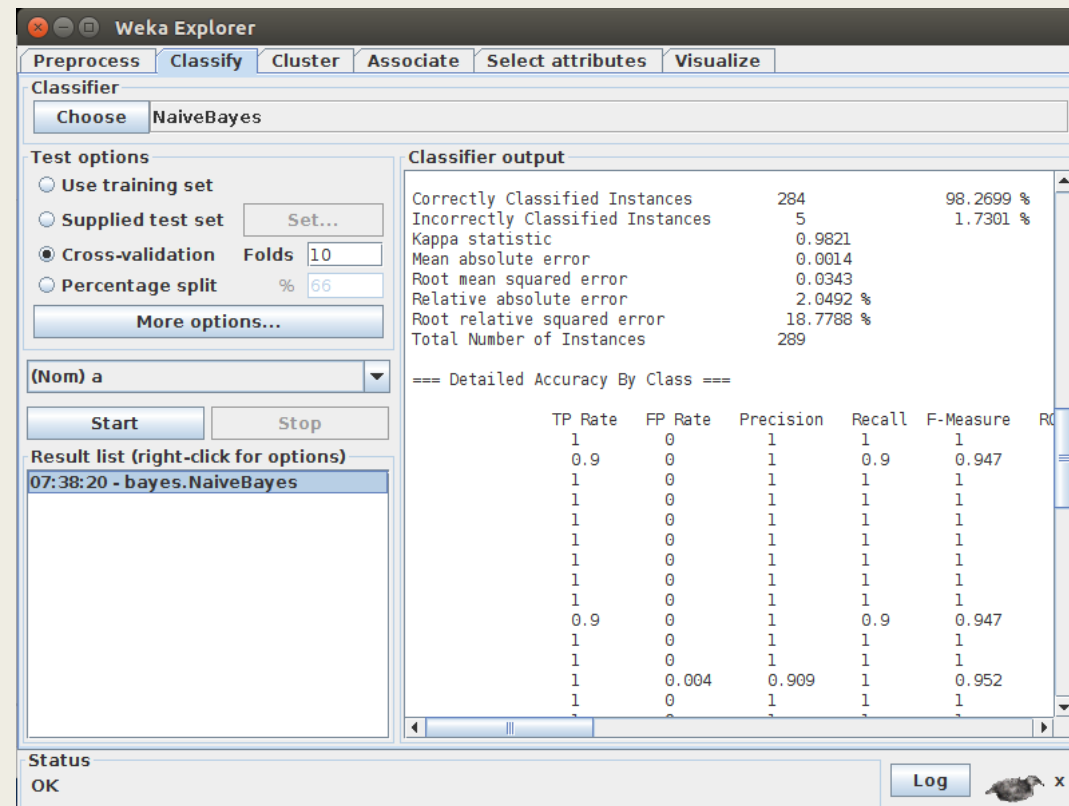# Example Using GUI (Cont.)

- Open Weka GUI

- Click on Explorer

Example Using GUI (Cont.)

- Click on Open File in Preprocess tab. Select the CSV file

- Click on Classify tab and Choose NaiveBayes

Example Using GUI (Cont.)

- Click on start and we will get the result and summary statistics

Thank You!

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