

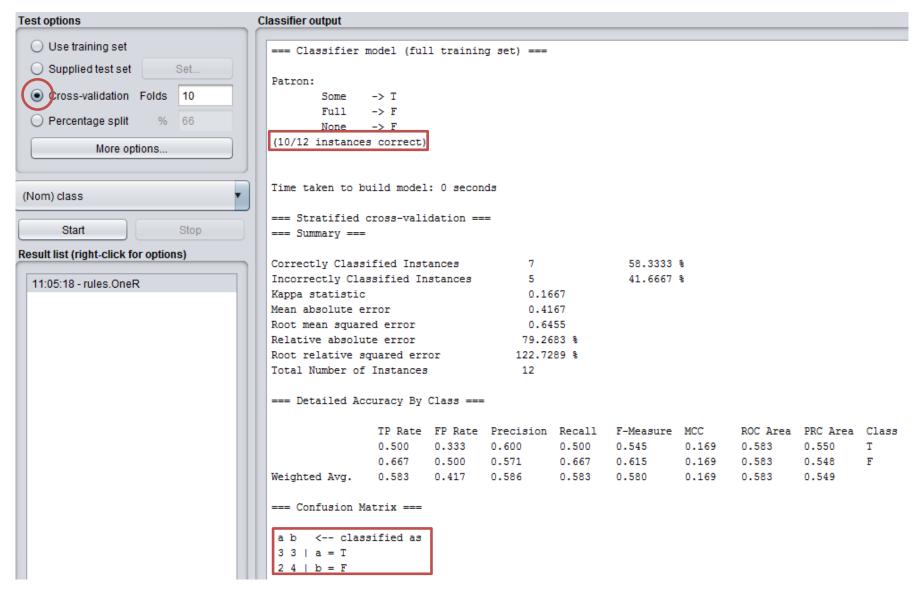
### Predict with WEKA

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October 10<sup>th</sup>, 2016



### On Problem Set 01



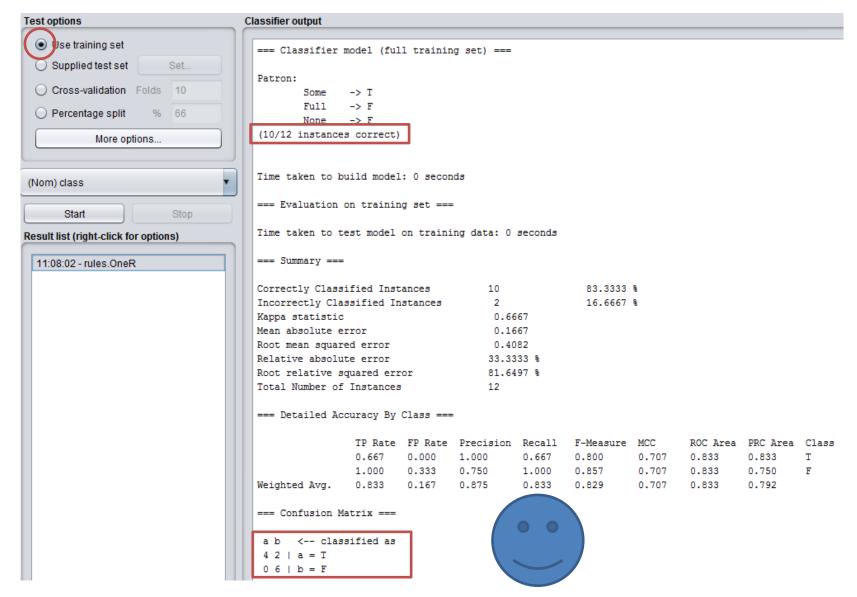


### WEKA test options

- Test with "Cross-validation"
  - Classifier comparison
- Test with "Use training set"
  - Data evaluation
- Test with "Supplied test set"
  - Predictive power

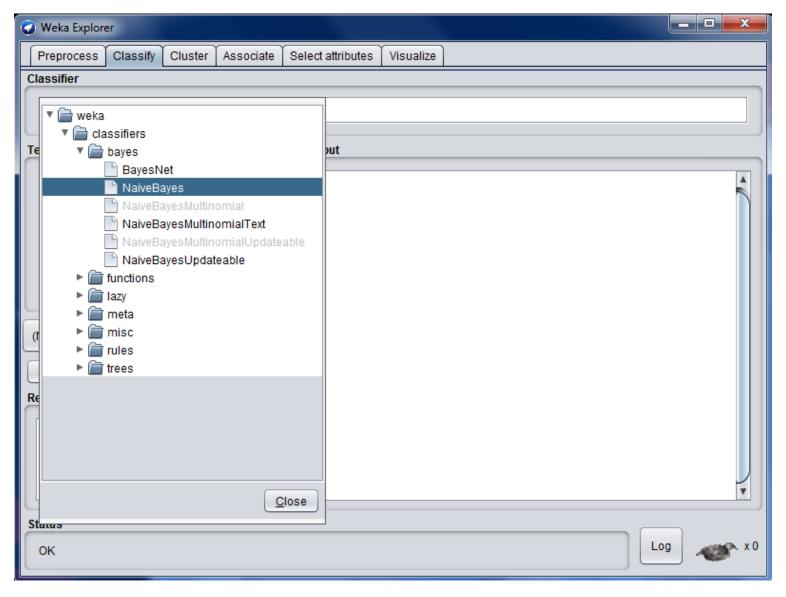


### On Problem Set 01



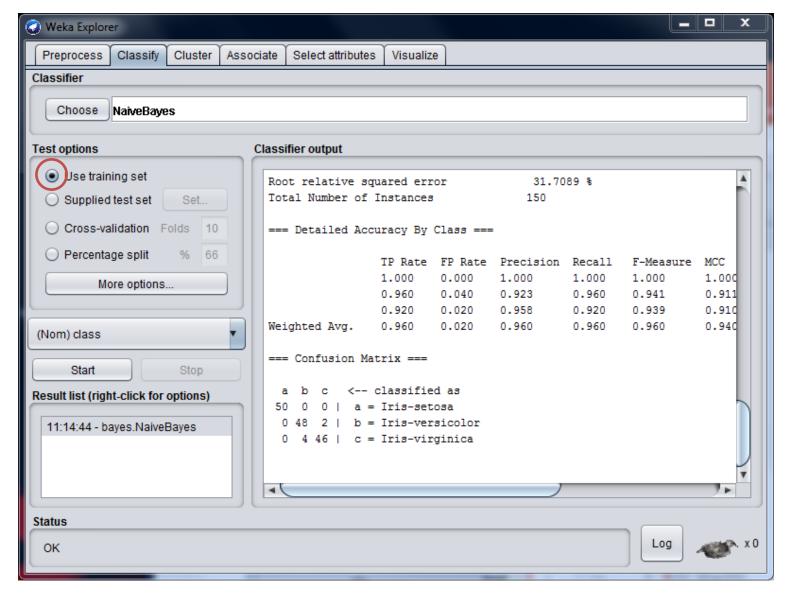


## WEKA – Naïve Bayes





#### **WEKA - Train**





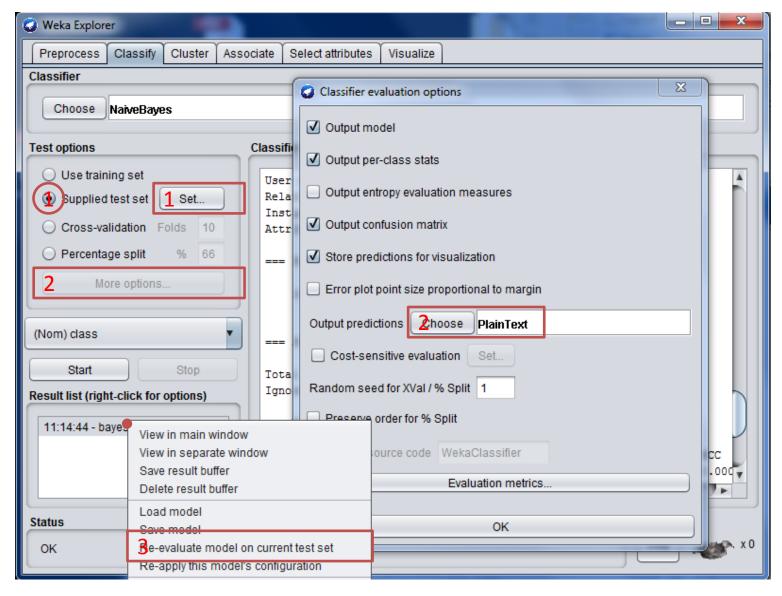
### **ARFF Sample**

- % Iris Plant Prediction %
- @RELATION iris-predict
- @ATTRIBUTE sepallength NUMERIC
- @ATTRIBUTE sepalwidth NUMERIC
- @ATTRIBUTE petallength NUMERIC
- @ATTRIBUTE petalwidth NUMERIC
- @ATTRIBUTE class {Iris-setosa, Iris-versicolor, Iris-virginica}

@DATA

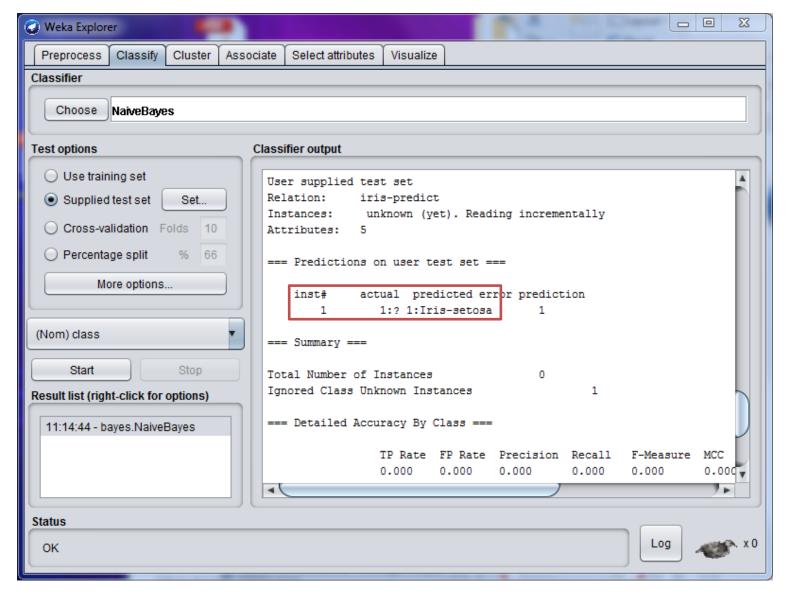
4.7, 3.1, 1.2, 0.1, ?







### WEKA – Predict





### WEKA – Predict

- Train with whole training set
- Create and supply test set/sample
- Enable output prediction
- Re-evaluate model
- Get result



### Problem Set 02

- Solve a decision problem by hand or WEKA with 1R
- Predict a class using Naïve Bayes by hand
- Predict a class using Naïve Bayes with WEKA

Deadline: October 17<sup>th</sup>, 2016 at 8:00 AM



# Questions?