Build Regression Model Using WEKA

ISE4132 : AI Application System

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WEKA Software Download

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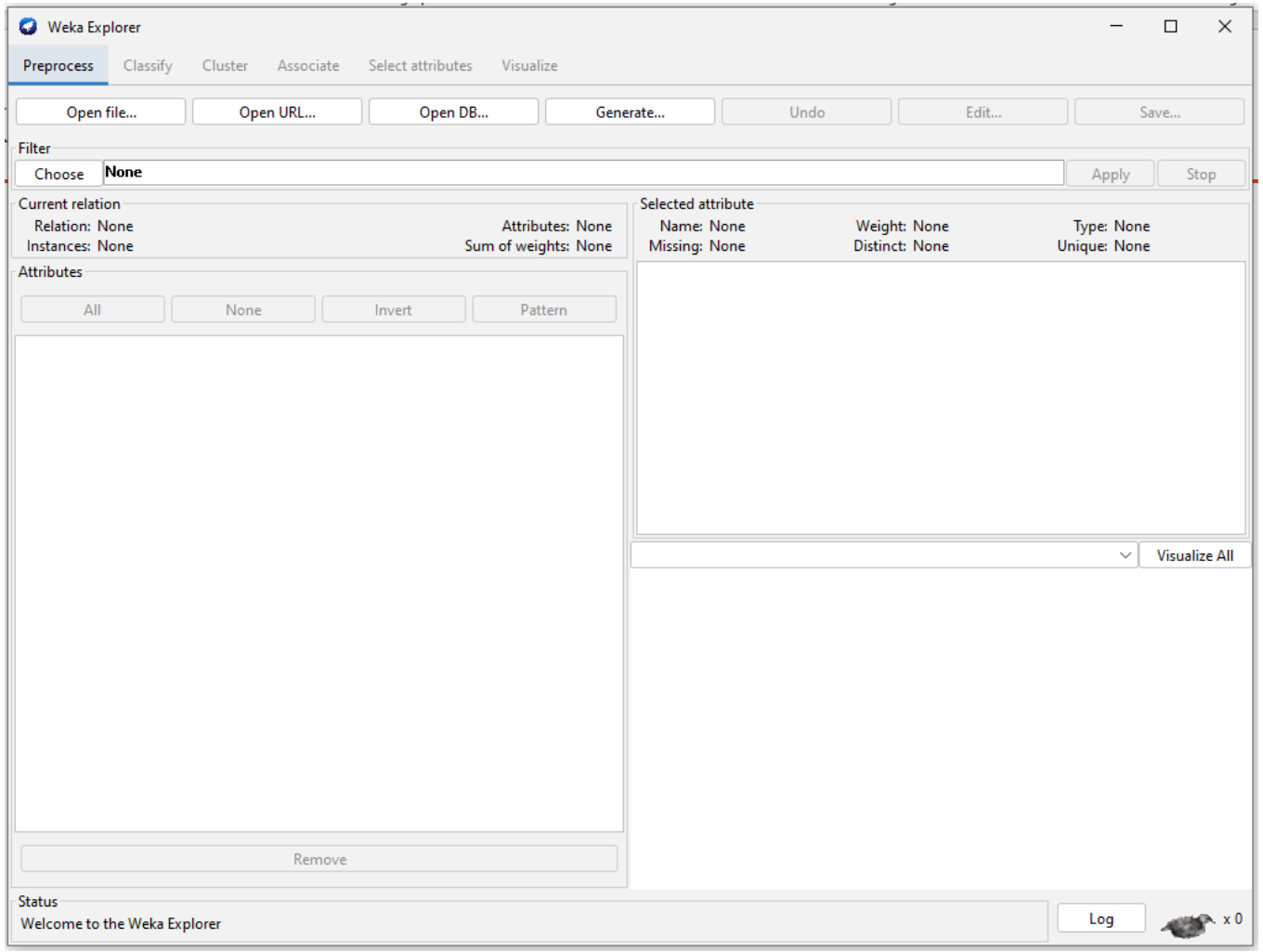
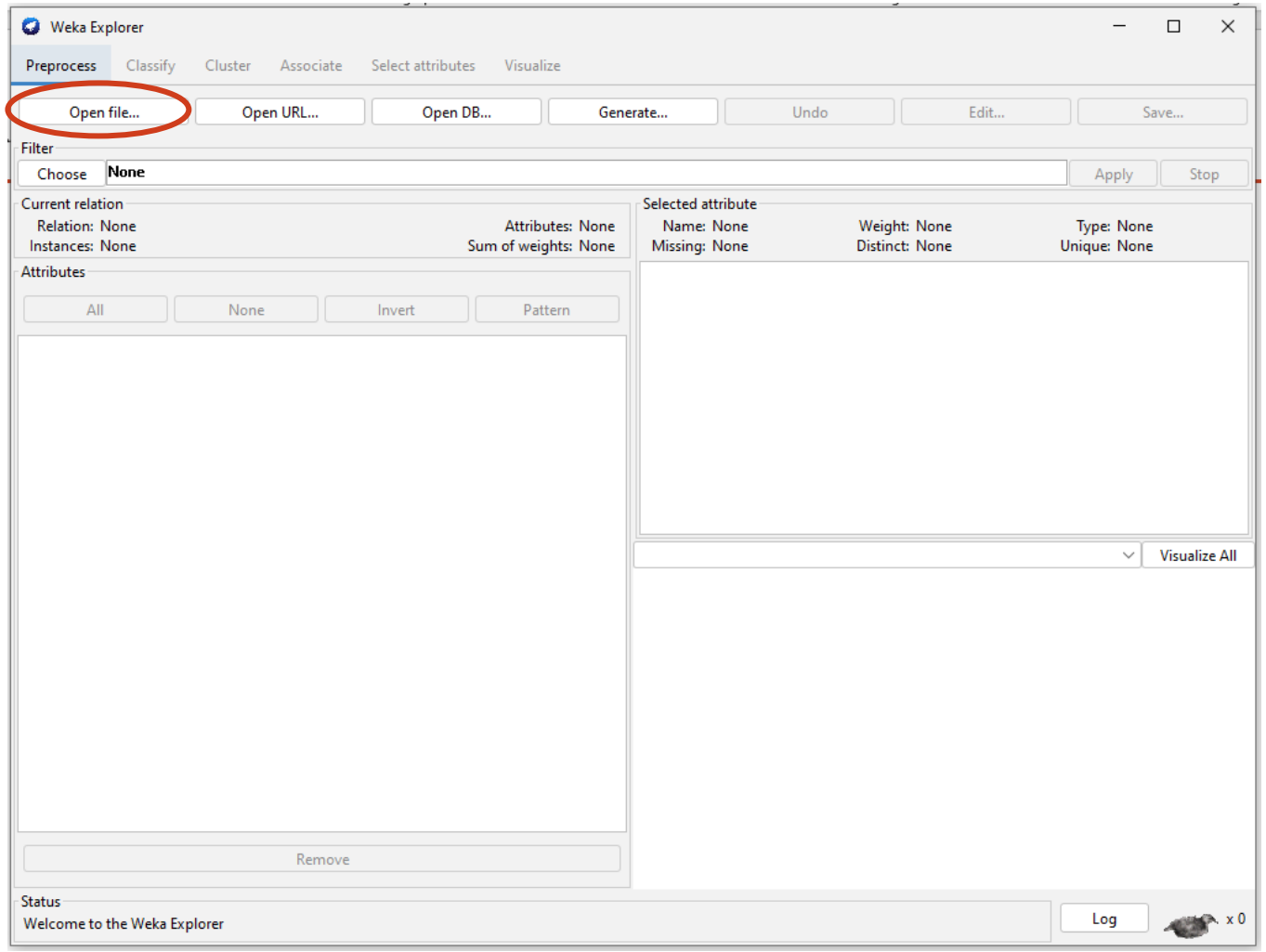
Selecting Dataset

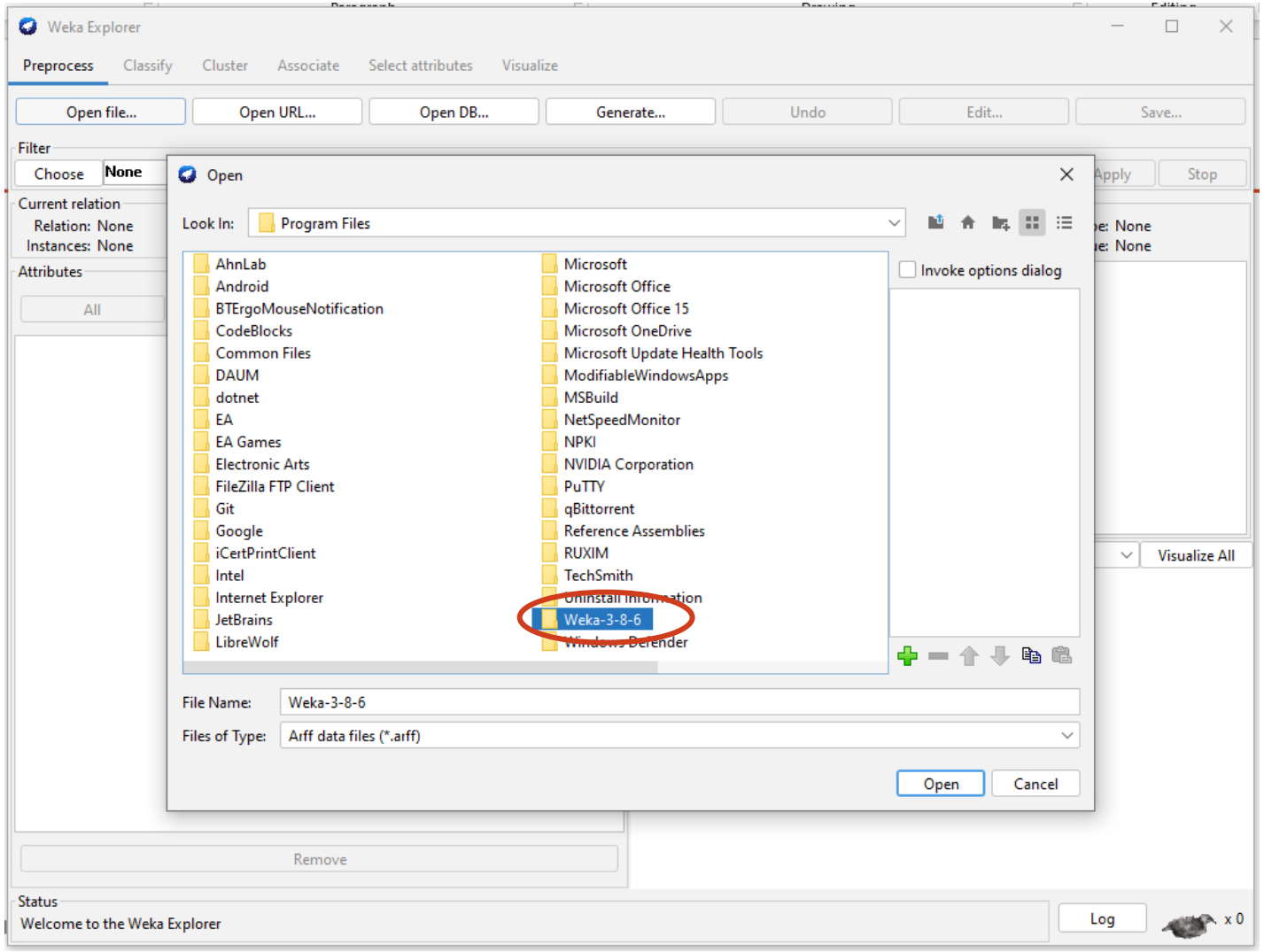
Selecting Dataset



Selecting Dataset

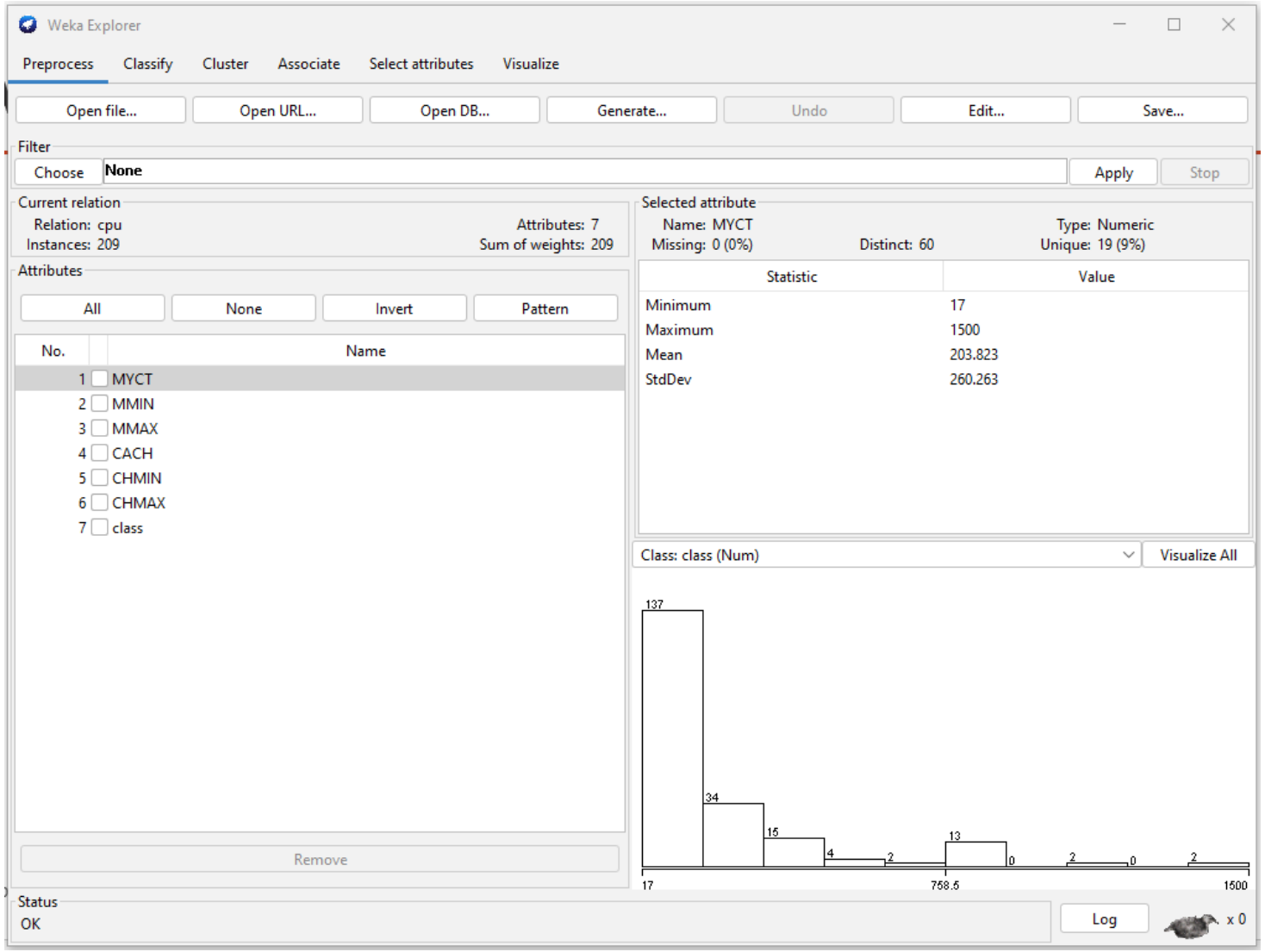


Selecting Dataset

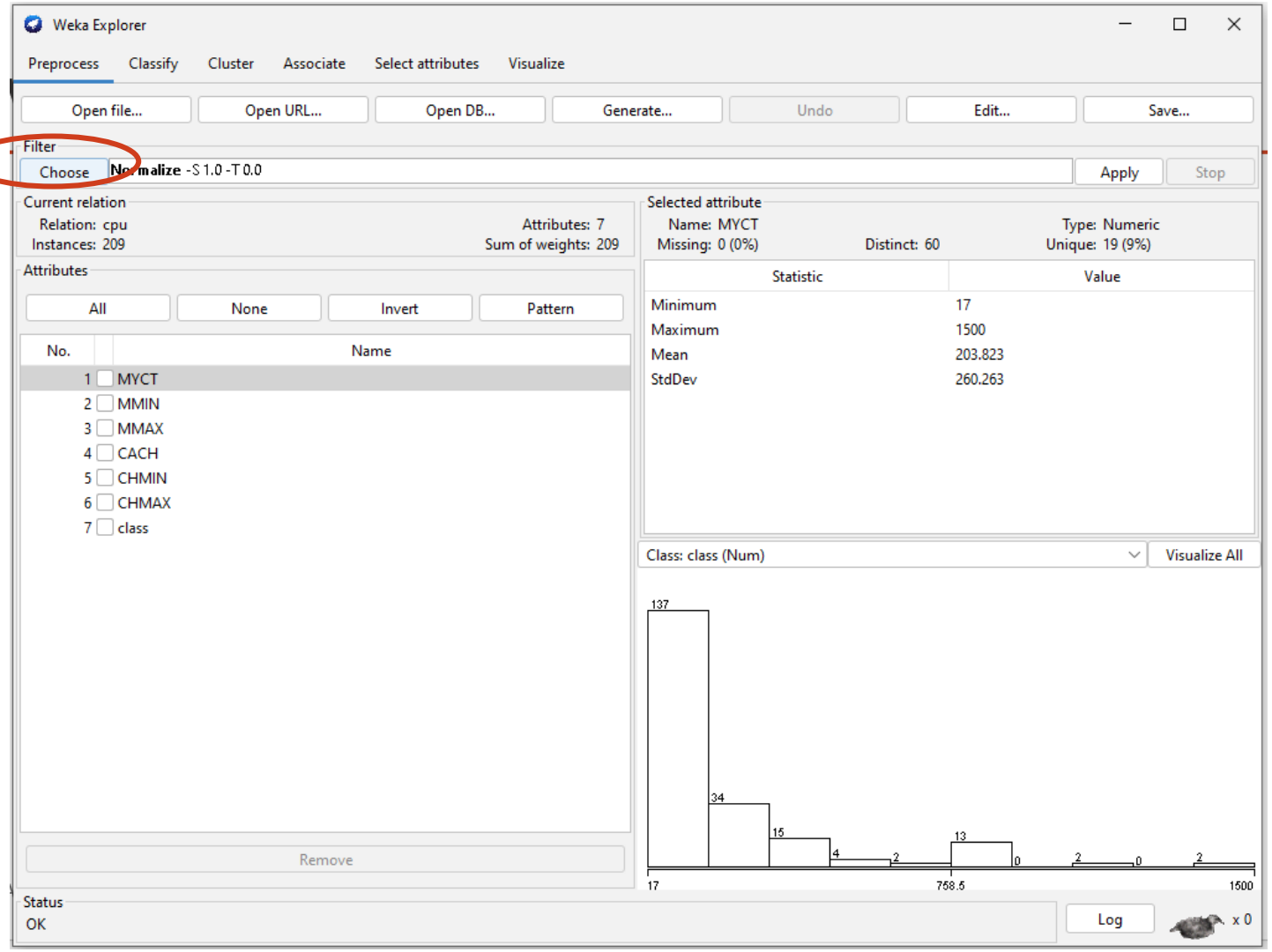


Weka-3-8-6 > data > cpu

Selecting Dataset

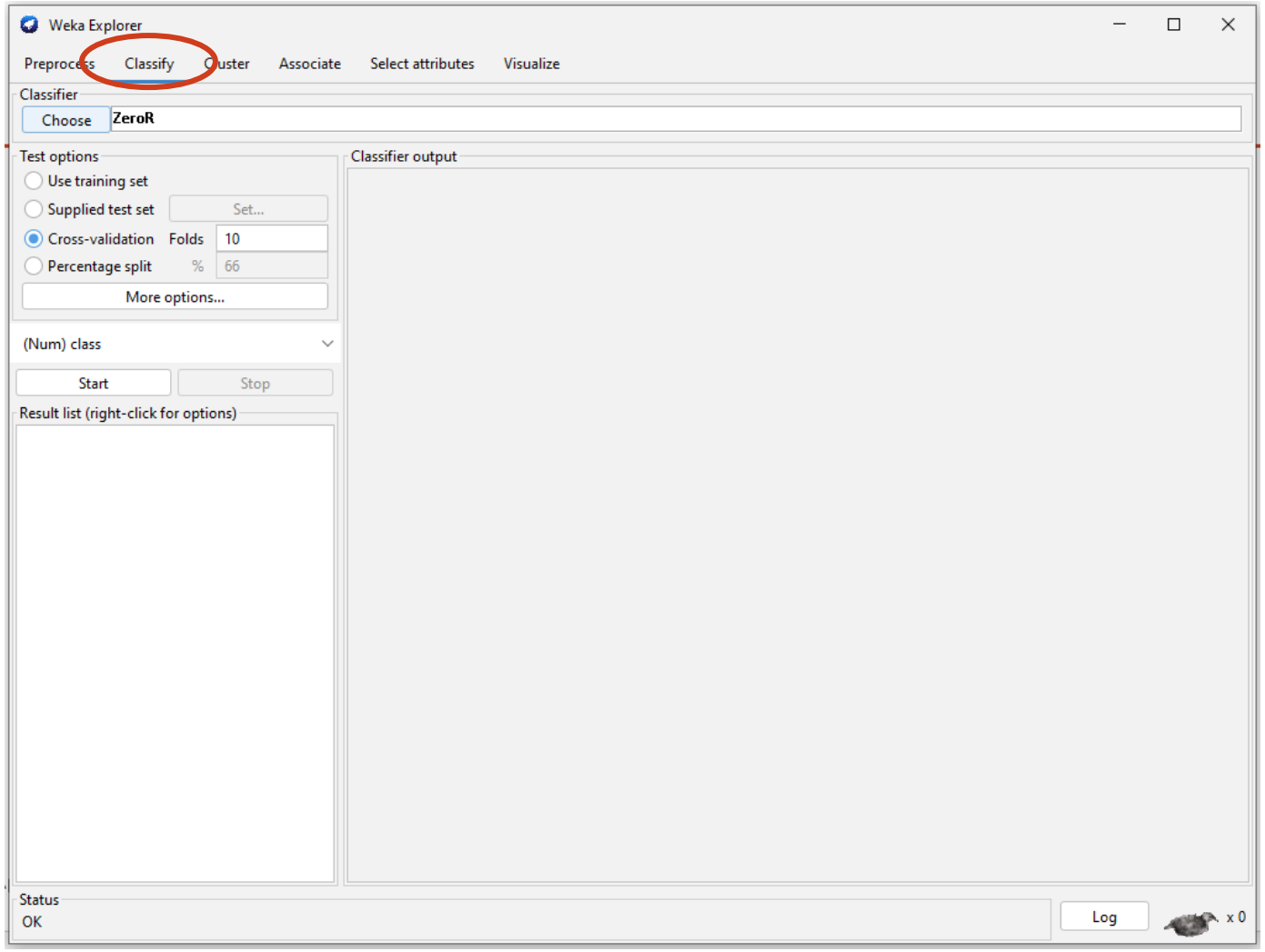


Min Max Normalization



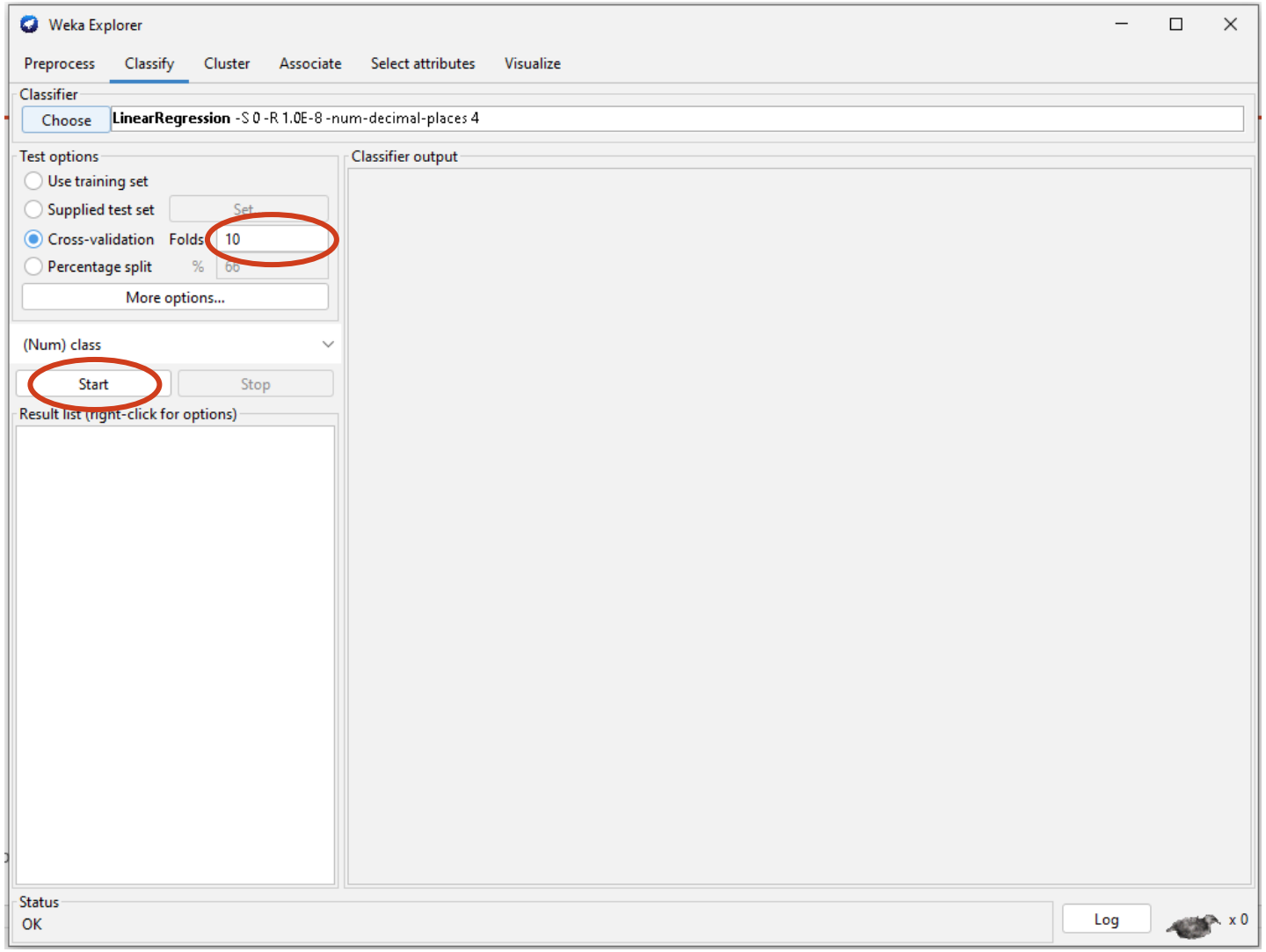
Filter > Choose > filters > unsupervised > attribute > Normalize > apply

Build ML Model

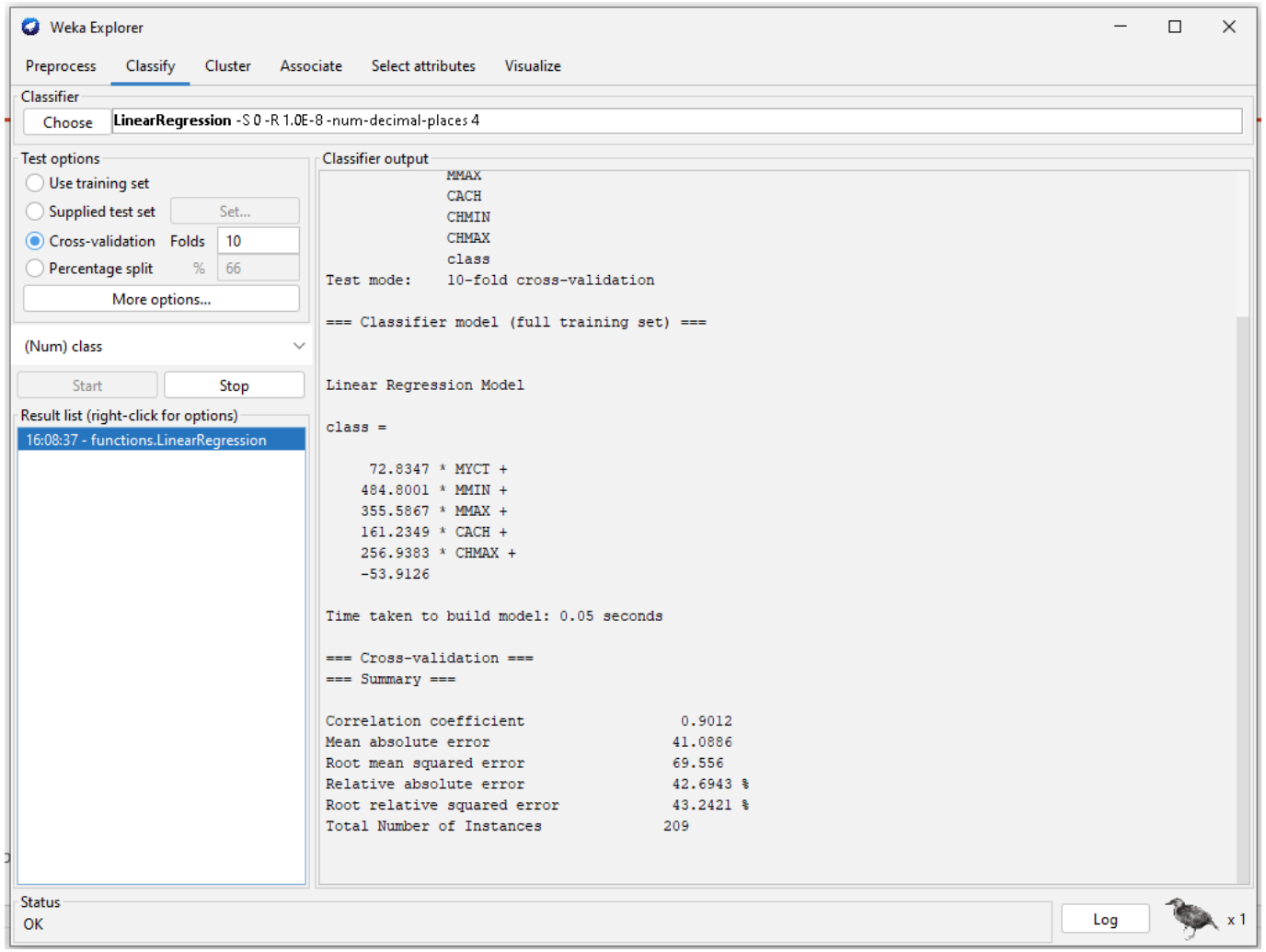


Choose > classifiers > function > linear regression

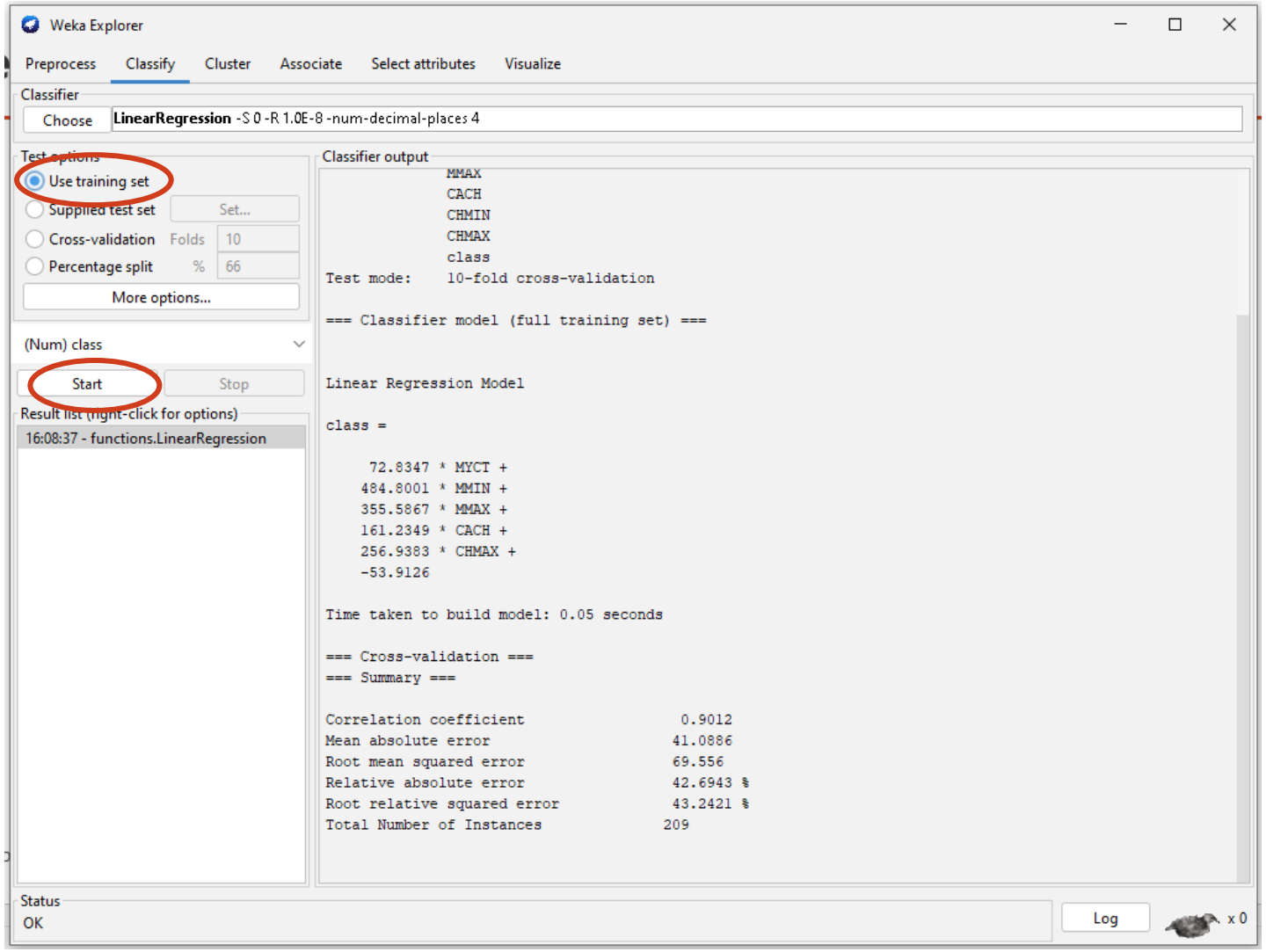
Build ML Model Using LR



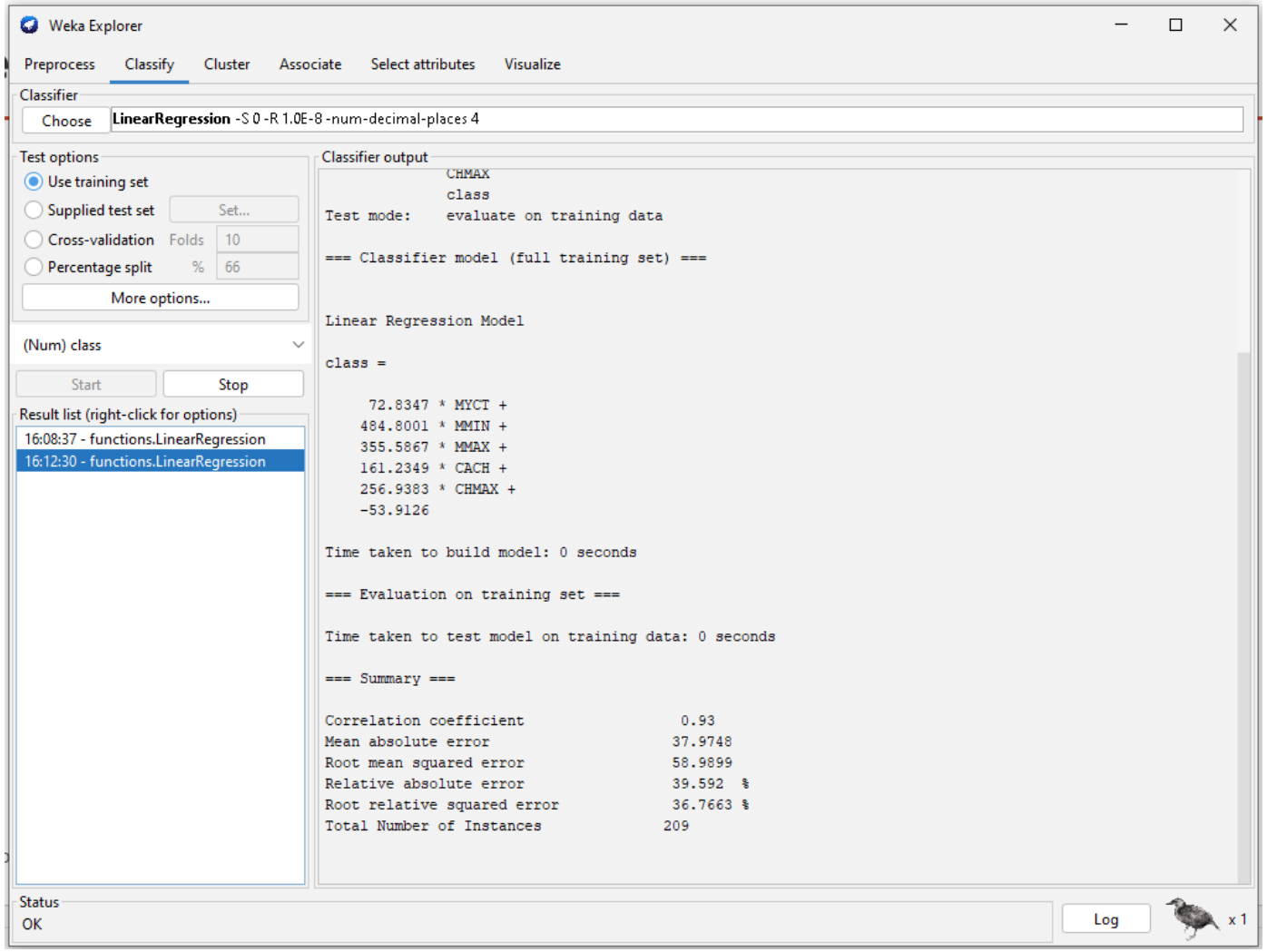
LR Model Output Using Cross Validation



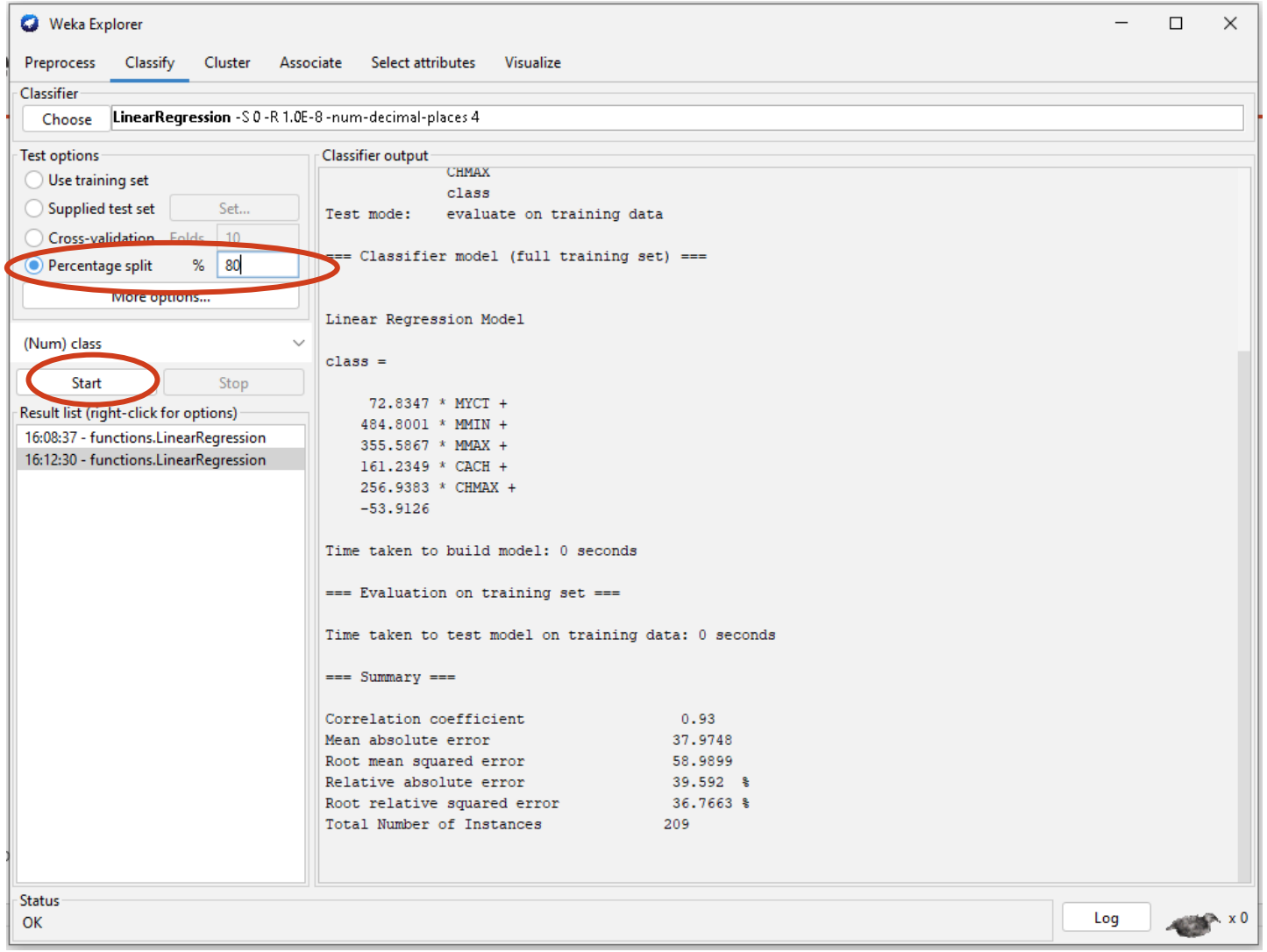
LR Model Output Using Training Set



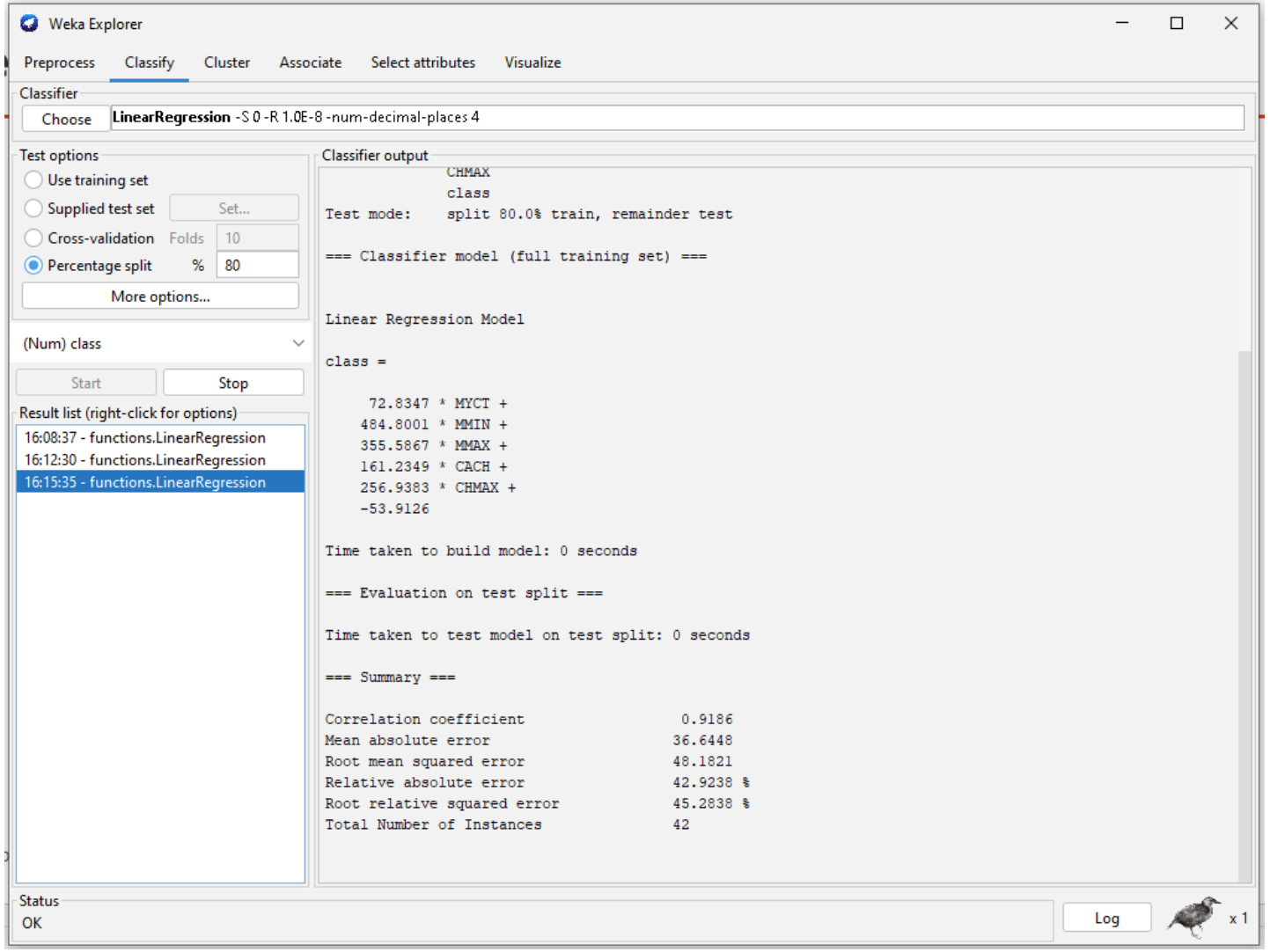
LR Model Output Using Training Set



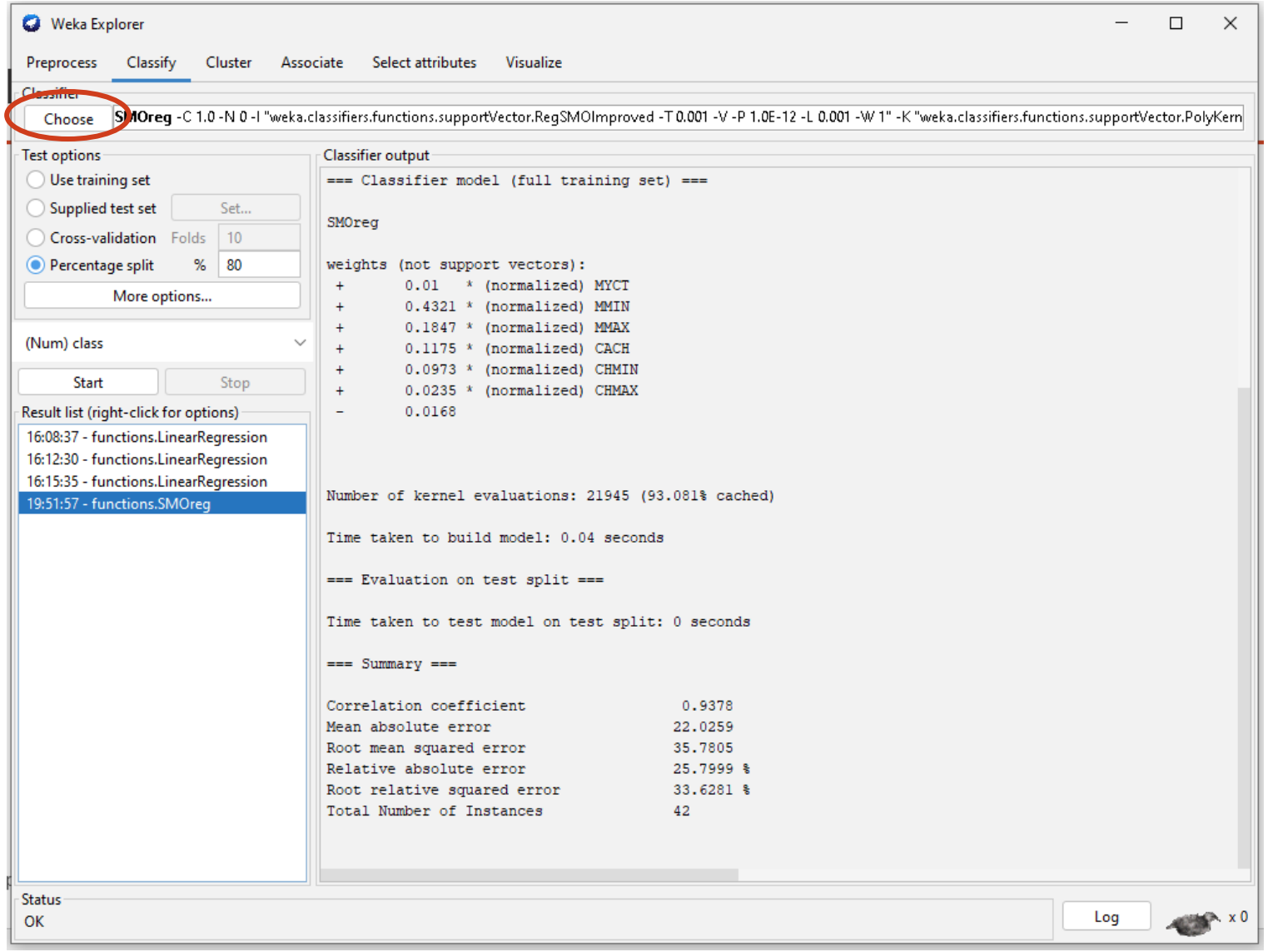
LR Model Output Using Split



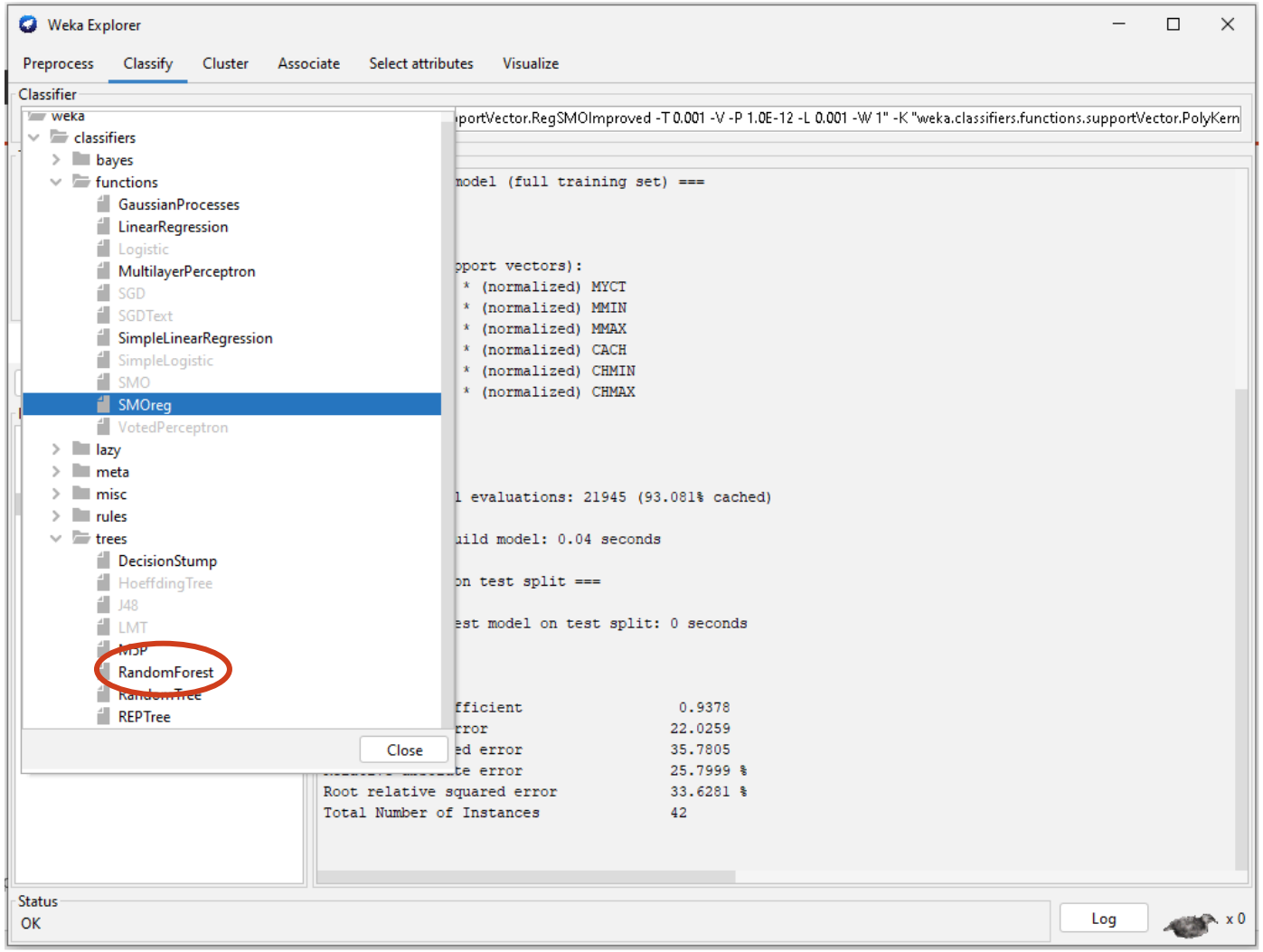
LR Model Output Using Split



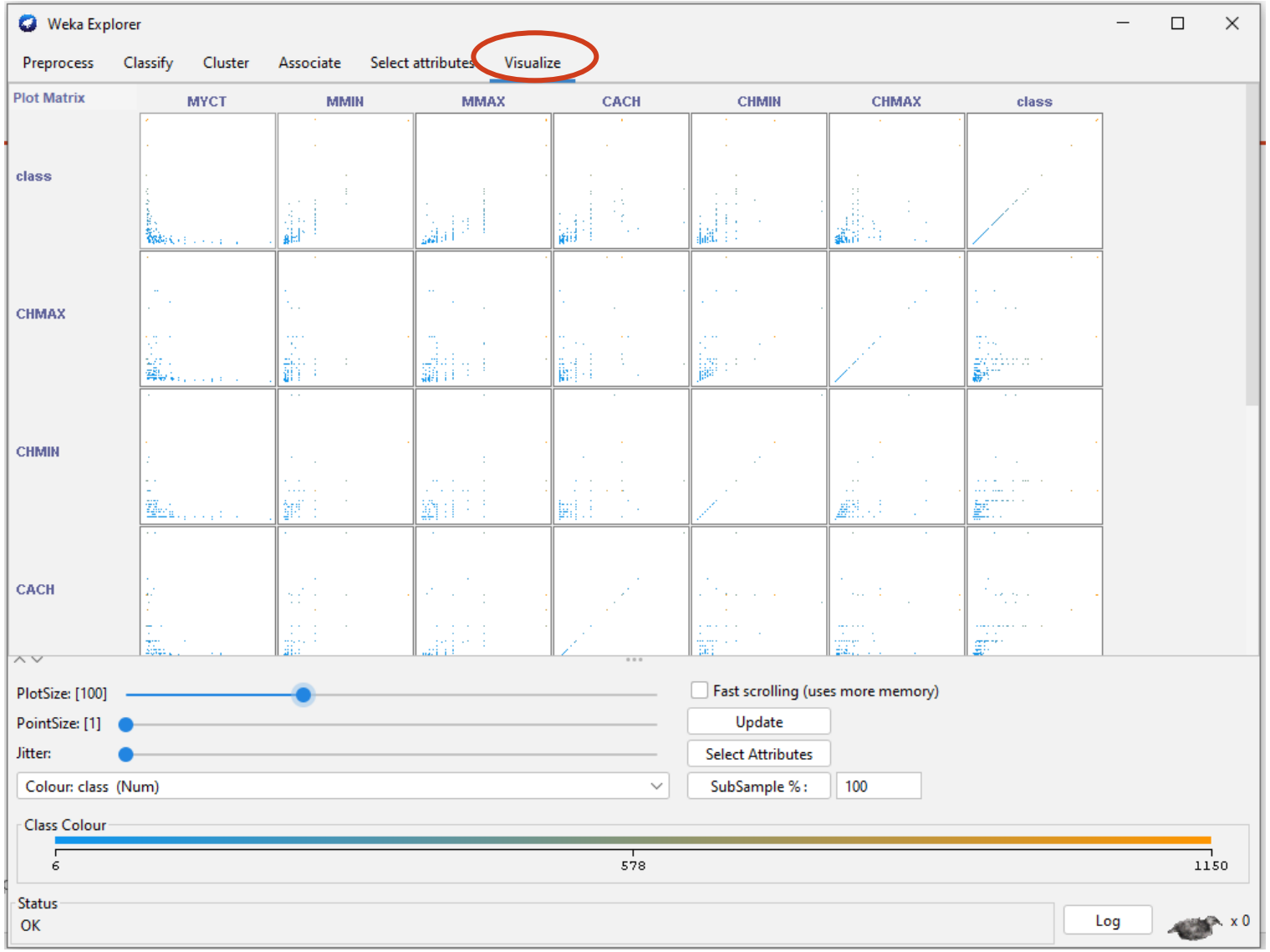
Build ML Model Using SVR



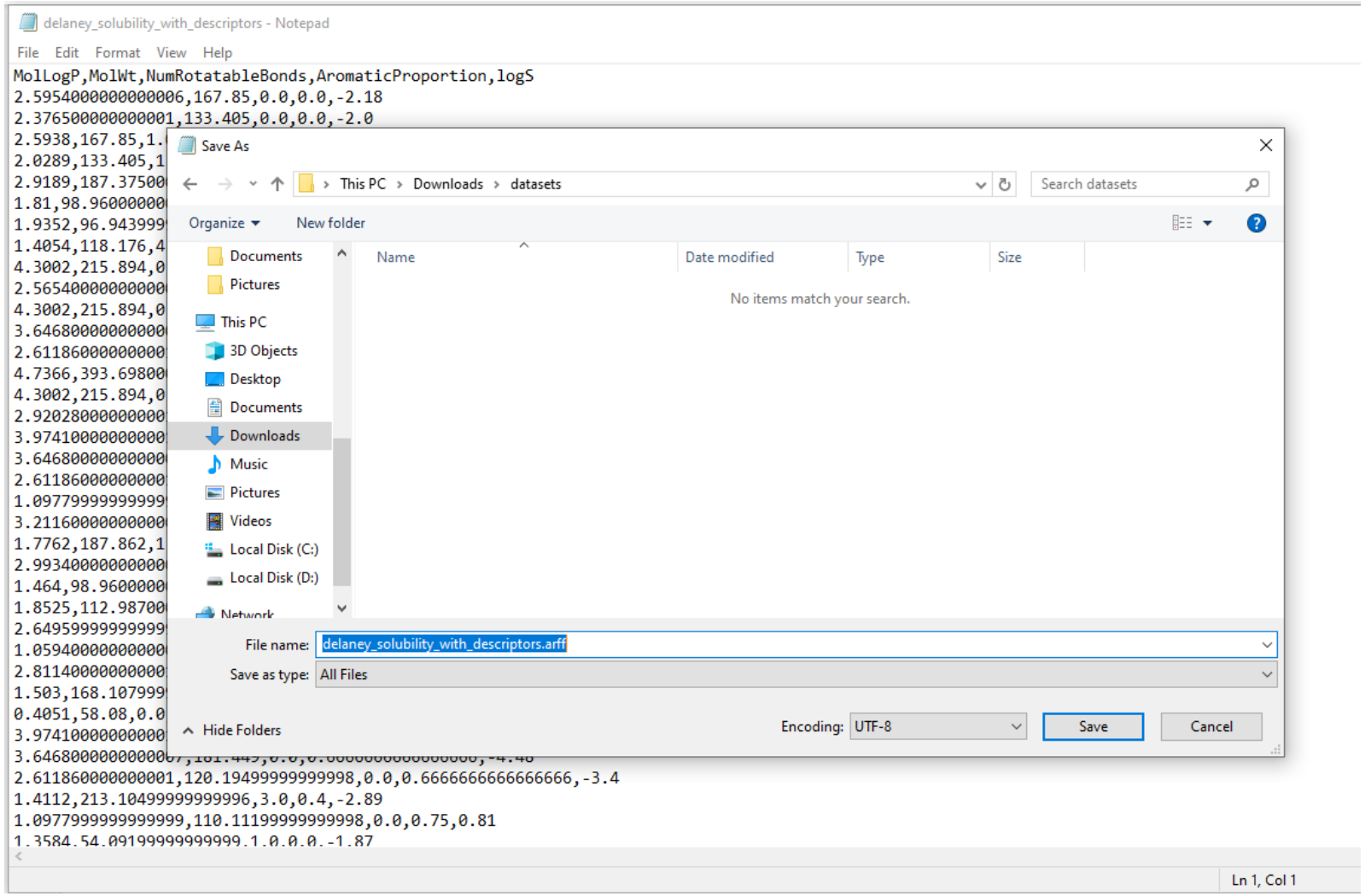
Build ML Model Using RF



Visualize Models Result



Converting a Dataset



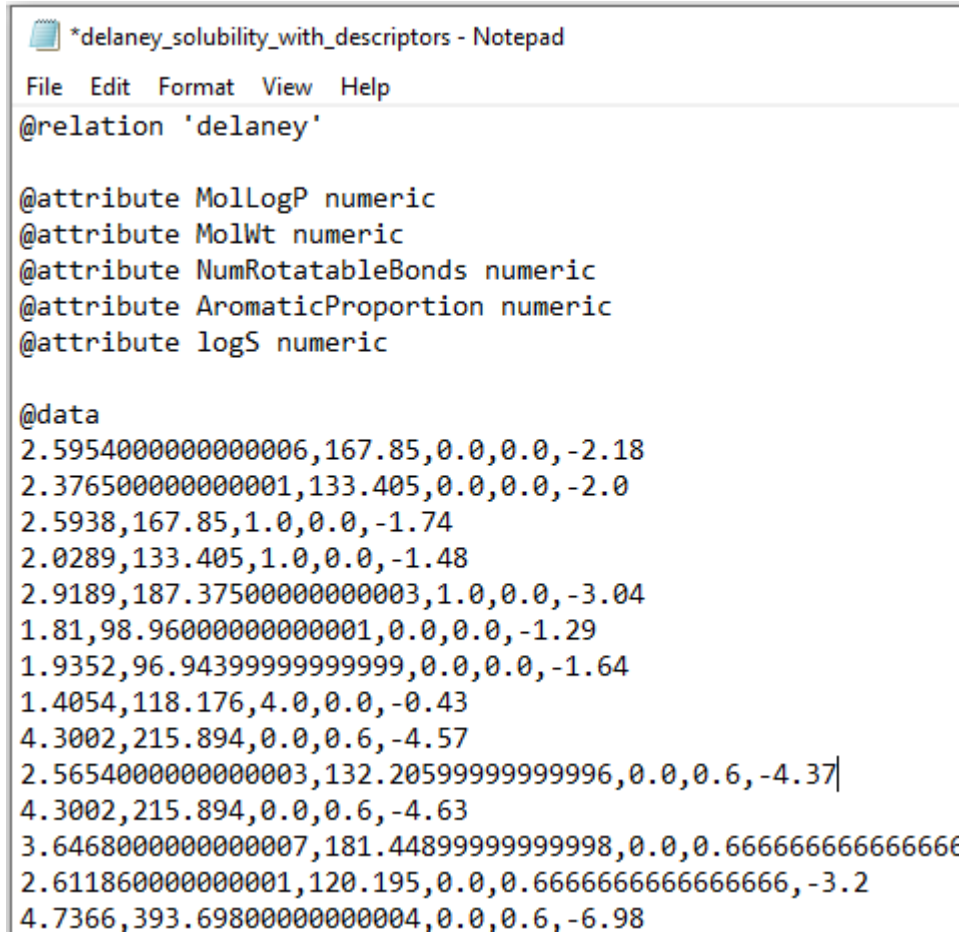
txt to arff

Modify to Import The Dataset into WEKA

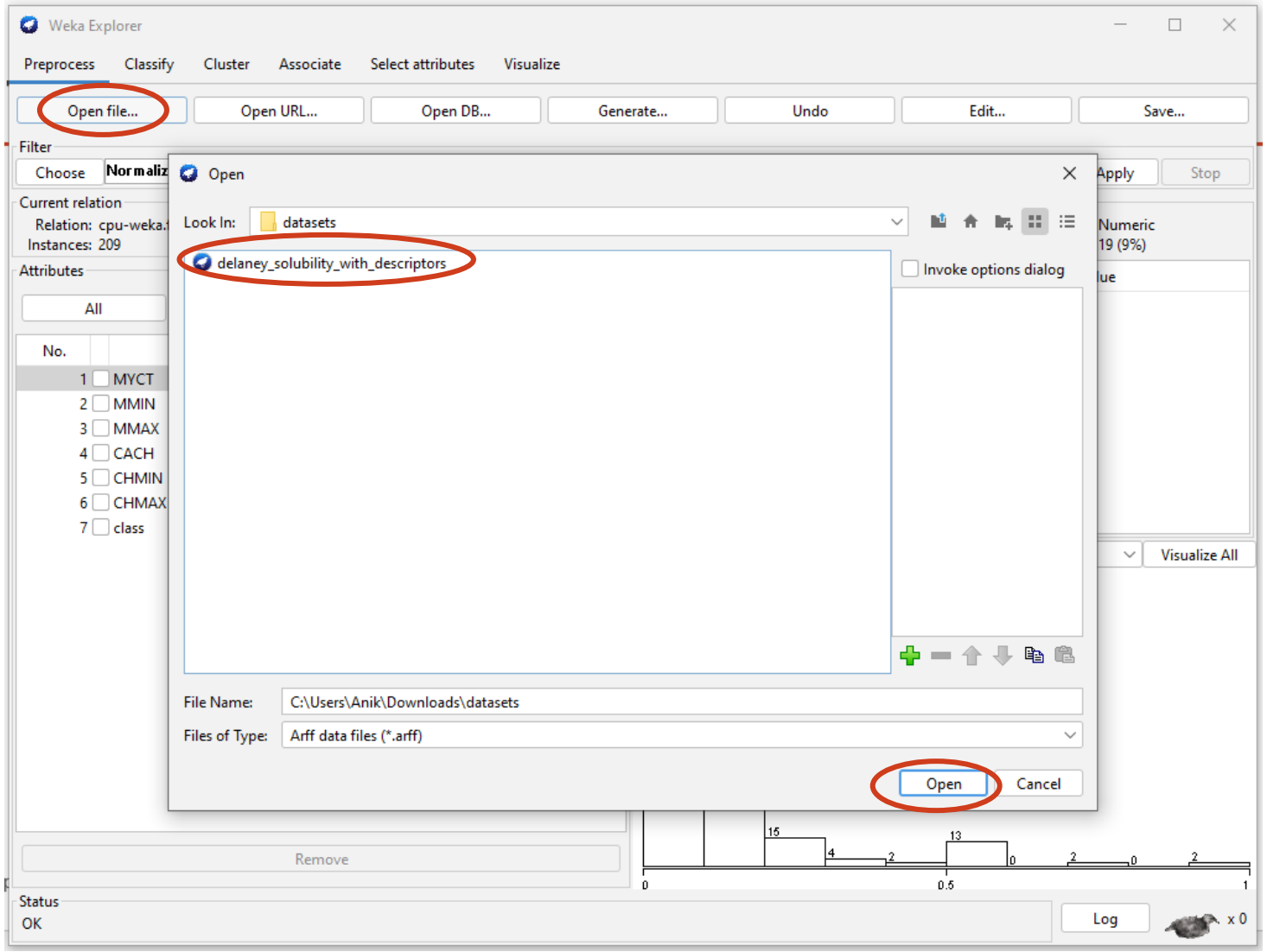
@relation 'delaney'

@attribute MolLogP numeric
@attribute MolWt numeric
@attribute NumRotatableBonds numeric
@attribute AromaticProportion numeric
@attribute logS numeric

@data



Open the New Dataset



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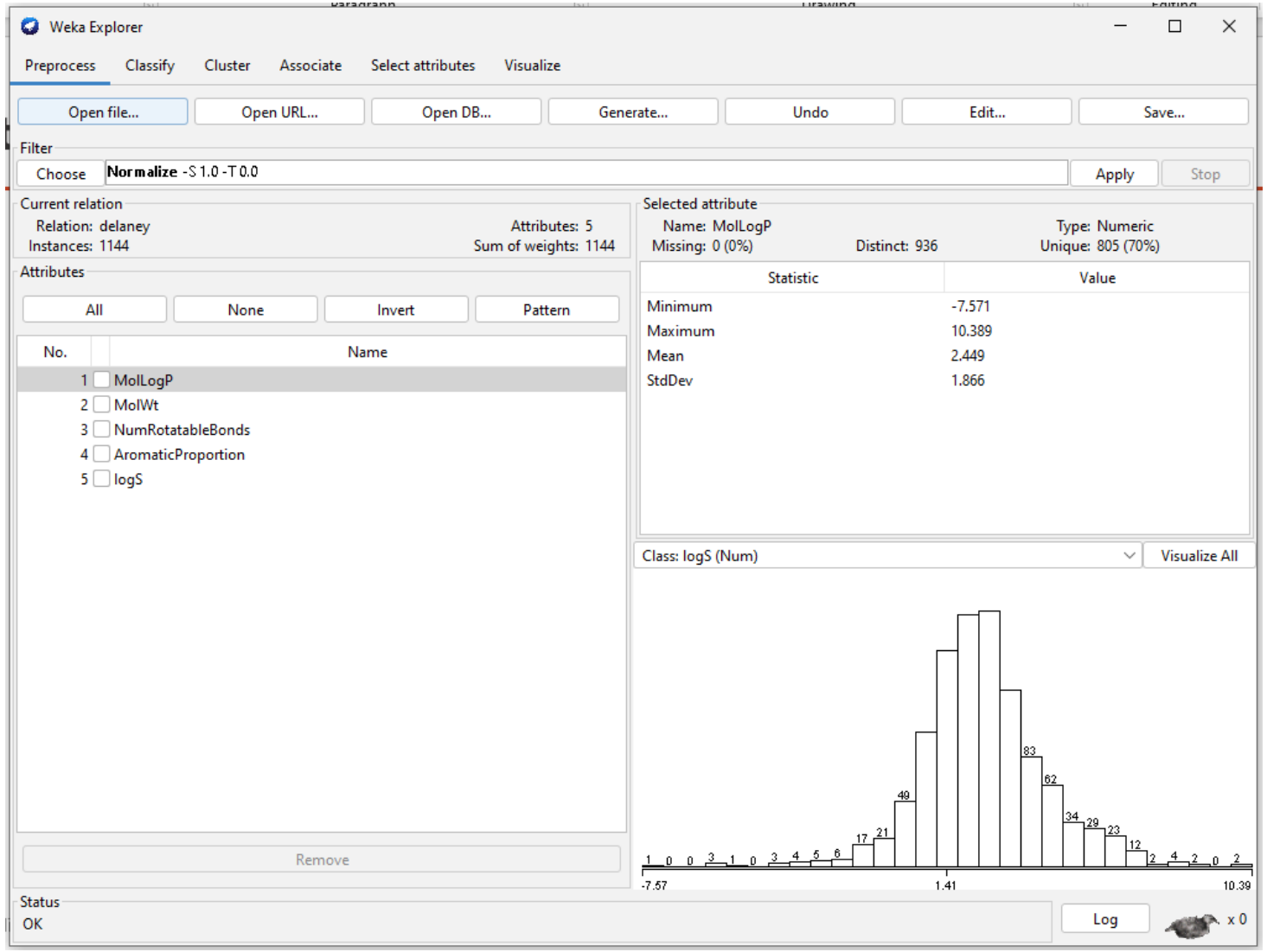

Class Activity

1. Apply Standardize filter (see changes on mean and StdDev)
2. Apply Linear Regression classifier using split 80% and check result
3. Change model parameter (attributeSelectionMethod > No attribute selection)
4. Try cross validation
5. Try Random Forest using cross validation