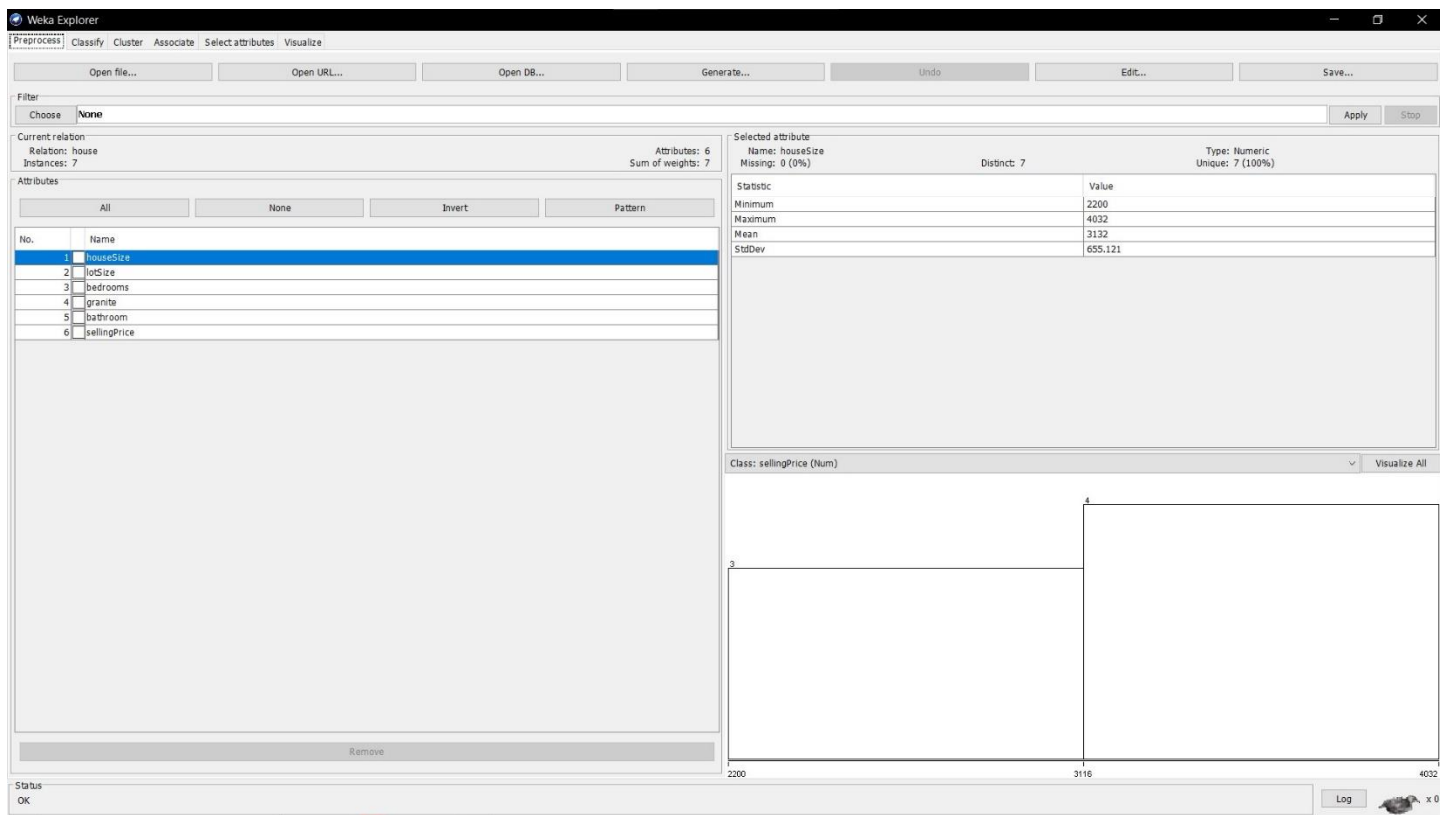
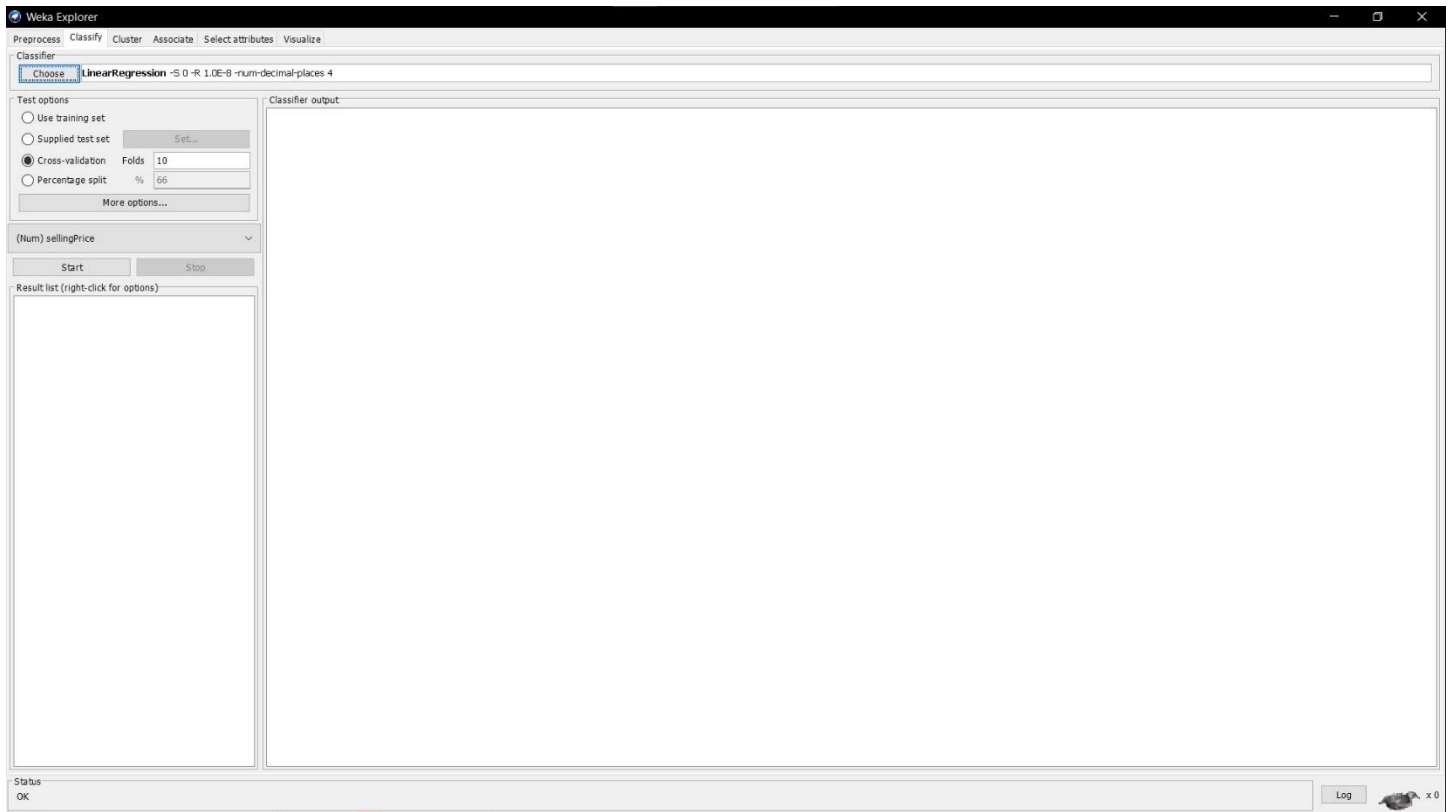


WEKA Lab Exercise

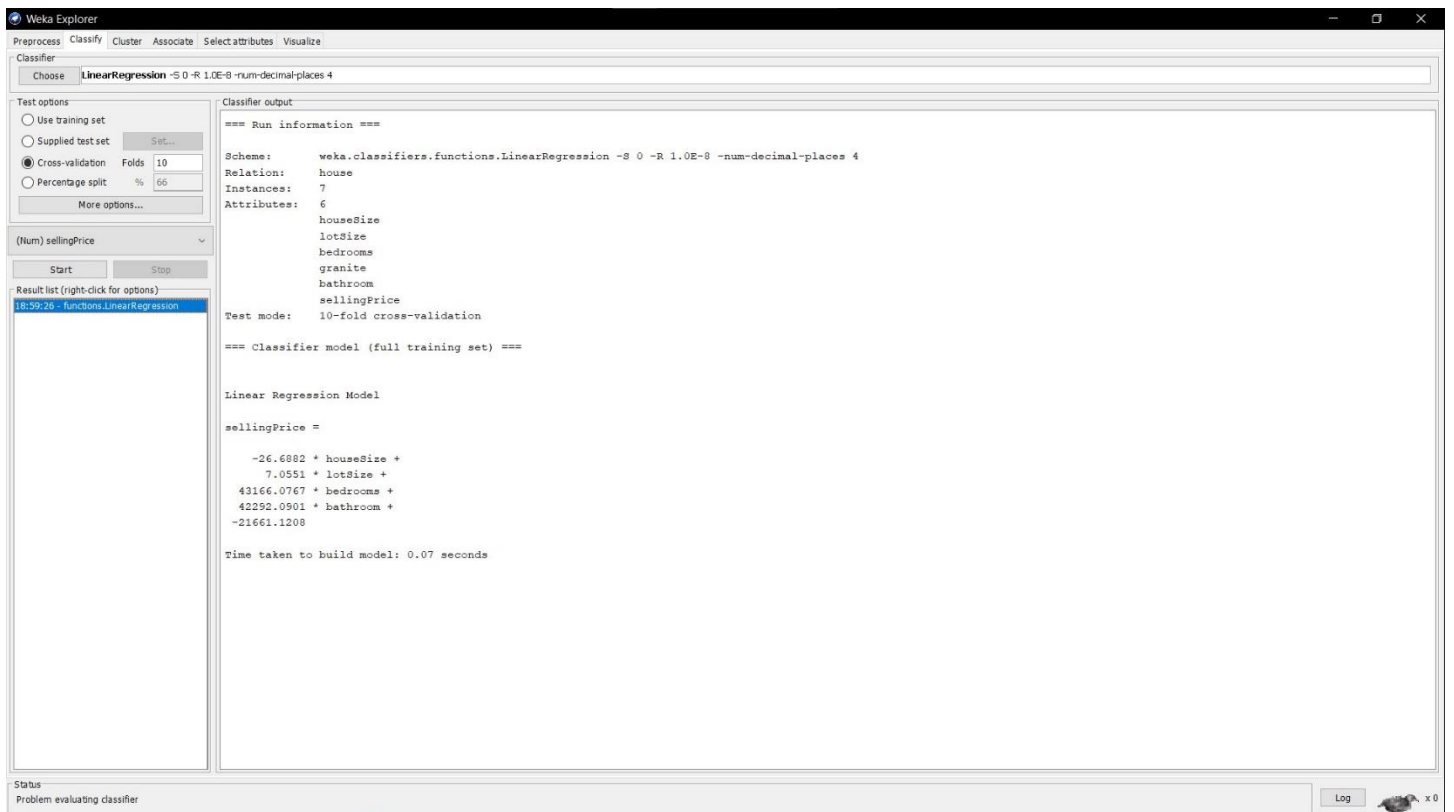
PART 1:



Load Houses



Linear Regression Classifier



Selling Price Start Build

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier: Choose LinearRegression -S 0 -R 1.0E-8 -num-decimal-places 4

Test options

☐ Use training set

☐ Supplied test set Set...

☒ Cross-validation Folds 10

☐ Percentage split % 66

More options...

(Num) class

Start Stop

Result list (right-click for options)

19:01:34 - functions.LinearRegression

Classifier output

```
acceleration
model
origin
class
Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

Linear Regression Model

class =

-2.2744 * cylinders=6,3,5,4 +
-4.4421 * cylinders=3,5,4 +
6.74 * cylinders=5,4 +
0.012 * displacement +
-0.0359 * horsepower +
-0.0056 * weight +
1.6184 * model=75,71,76,74,77,78,79,81,82,80 +
1.8307 * model=77,78,79,81,82,80 +
1.8958 * model=79,81,82,80 +
1.7754 * model=81,82,80 +
1.167 * model=82,80 +
1.2522 * model=80 +
2.1363 * origin=2,3 +
37.9165

Time taken to build model: 0.14 seconds

=== Cross-validation ===

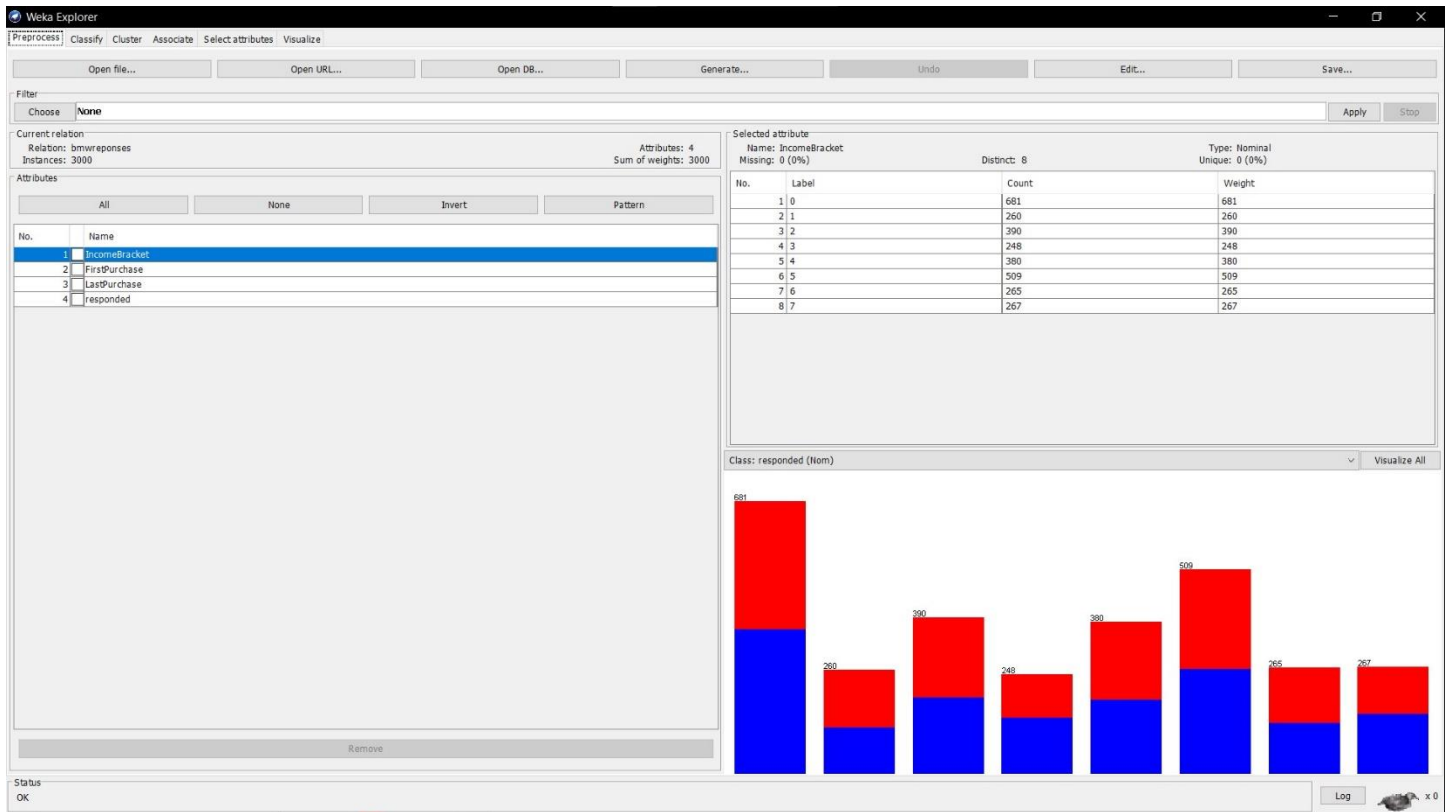
=== Summary ===

Correlation coefficient      0.9245
Mean absolute error         2.252
Root mean squared error     2.9755
Relative absolute error     34.3876 %
Root relative squared error 37.9994 %
Total Number of Instances   398
```

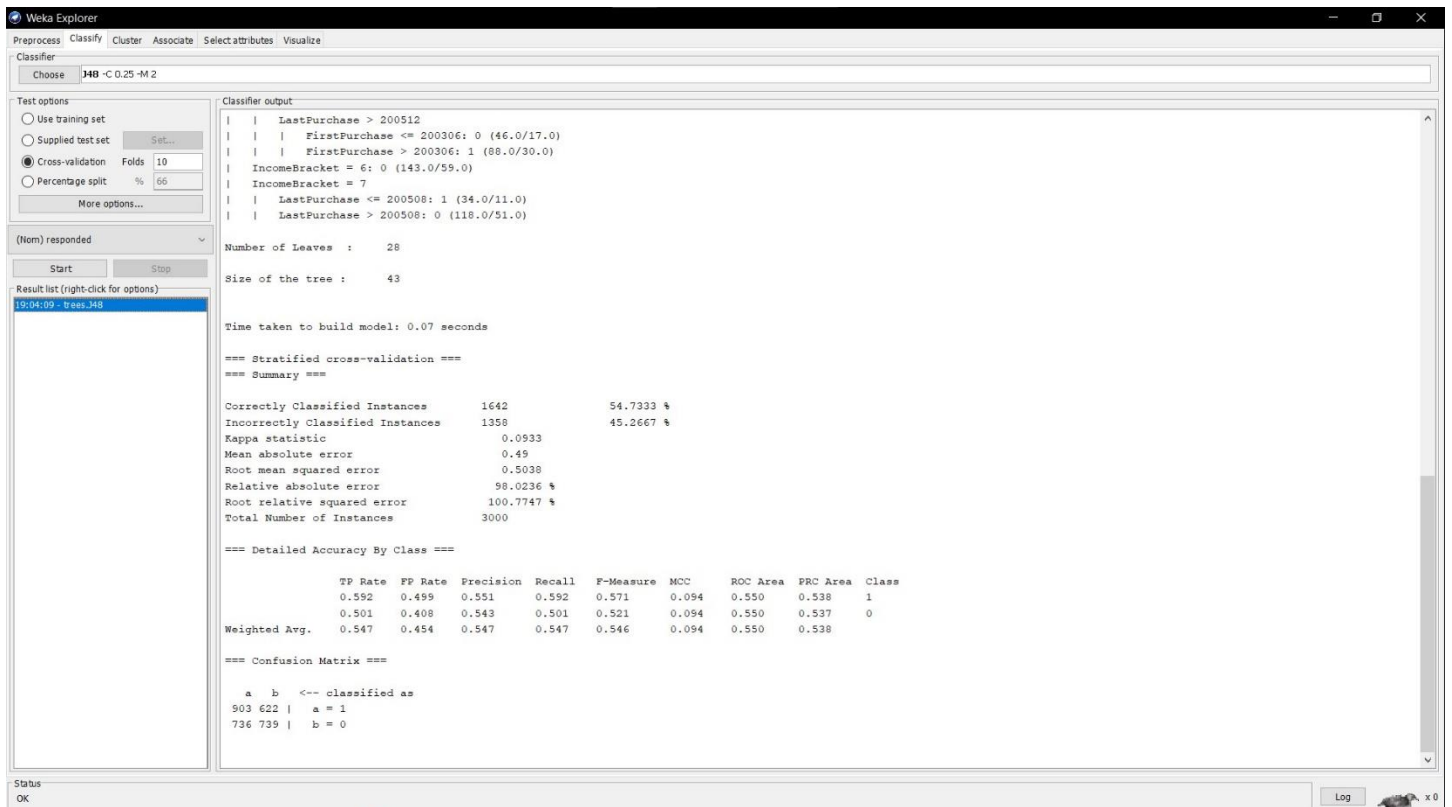
Status OK Log x 0

Load AutoMPG and Class Start Build

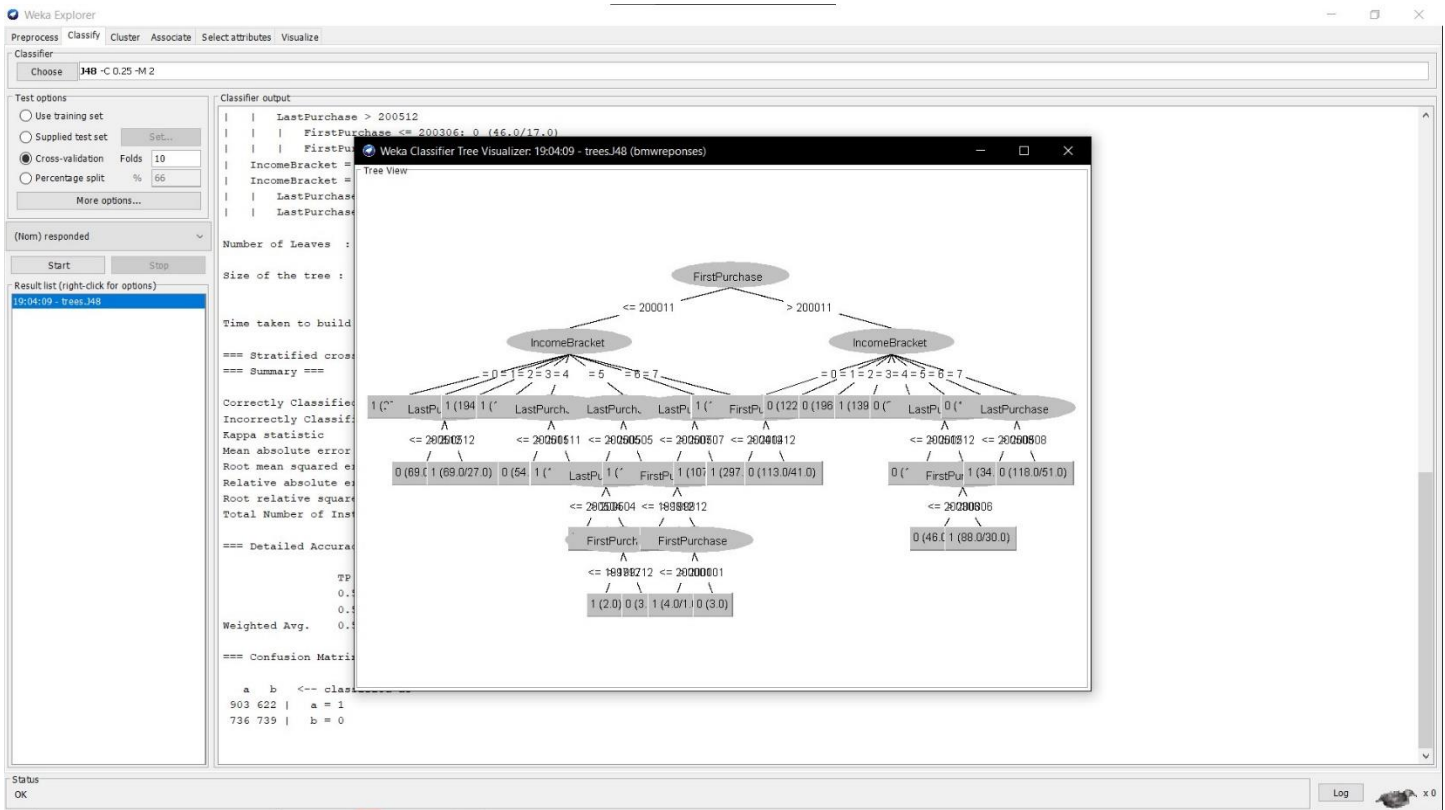
PART 2:



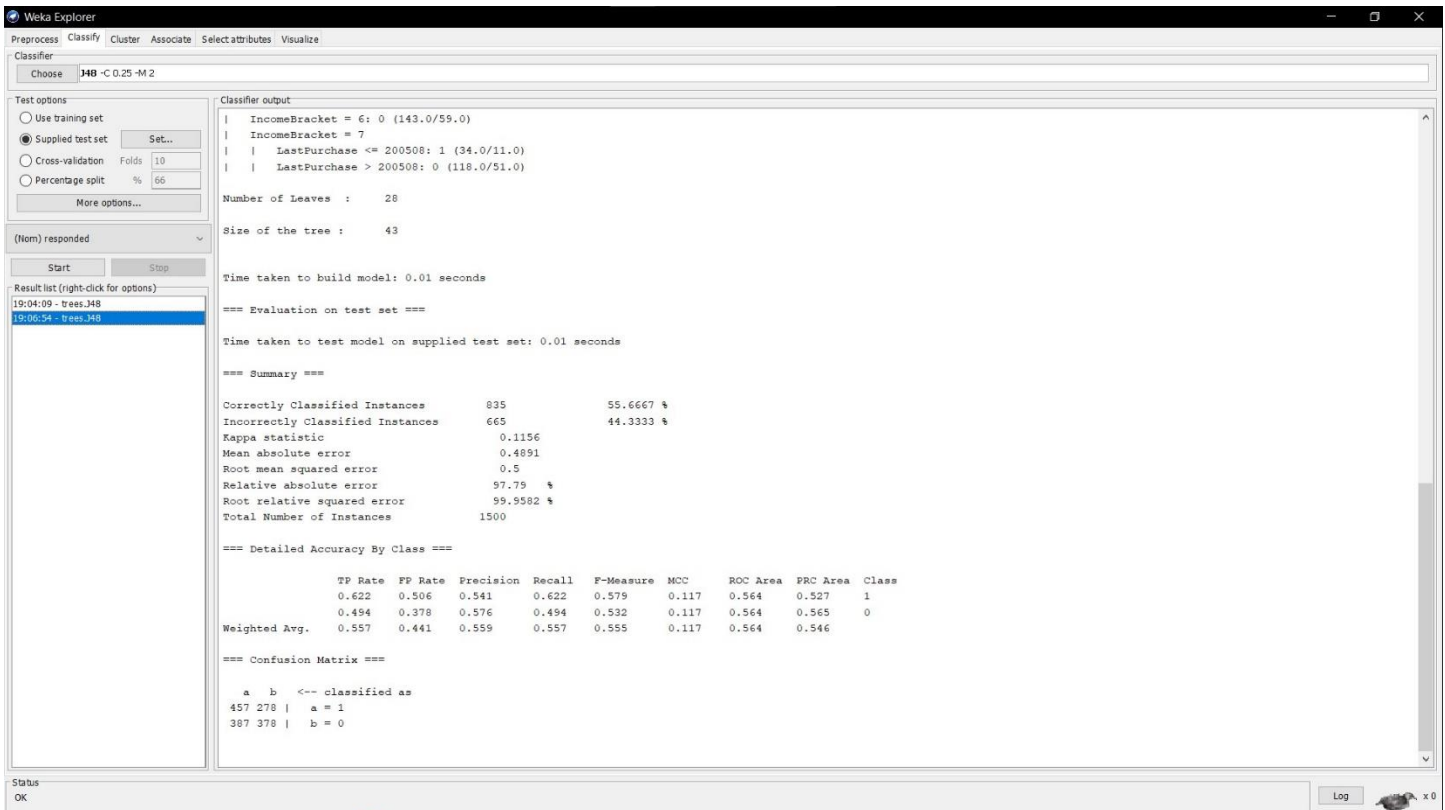
Load BMW Training



Responded Start Build



Visualize Tree



Load BMW Test Set and Start Build