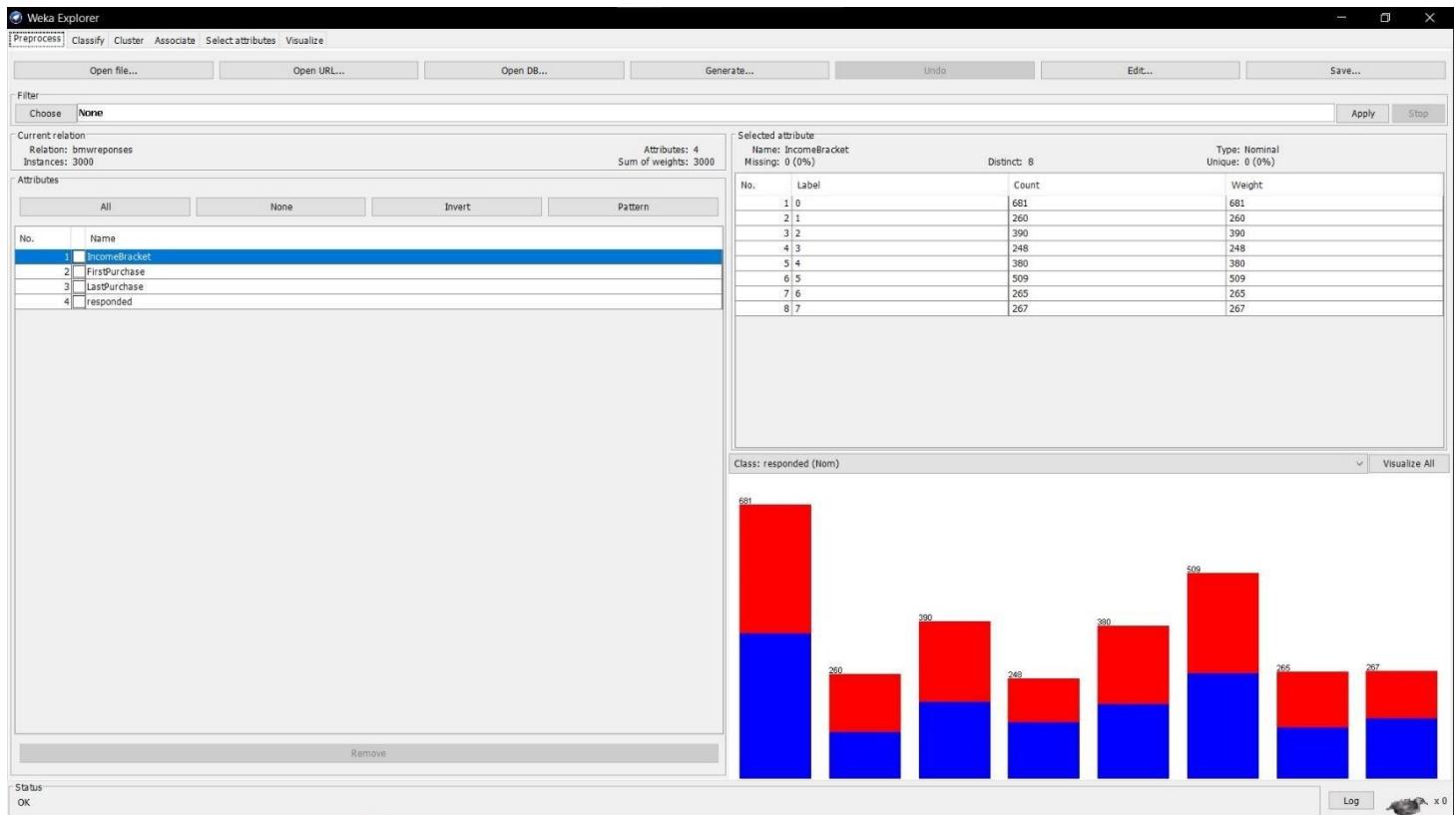


WEKA Lab Exercise

PART 2:



Load BMW Training

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier

Choose **J48 -C 0.25 -M 2**

Test options

- Use training set
- Supplied test set Set...
- Cross-validation Folds 10
- Percentage split % 66
- [More options...](#)

(Nom) responded

Start Stop

Result list (right-click for options)

19/04/09 - trees.J48

```

Classifier output
|   |   LastPurchase > 200512
|   |   | FirstPurchase <= 200306: 0 (46.0/17.0)
|   |   | FirstPurchase > 200306: 1 (88.0/30.0)
| IncomeBracket = 6: 0 (143.0/59.0)
| IncomeBracket = 7
|   |   LastPurchase <= 200508: 1 (34.0/11.0)
|   |   LastPurchase > 200508: 0 (118.0/51.0)

Number of Leaves : 28

Size of the tree : 43

Time taken to build model: 0.07 seconds

==== Stratified cross-validation ====
==== Summary ====

Correctly Classified Instances      1642      54.7333 %
Incorrectly Classified Instances    1358      45.2667 %
Kappa statistic                   0.0933
Mean absolute error               0.49
Root mean squared error           0.5038
Relative absolute error            98.0236 %
Root relative squared error       100.7747 %
Total Number of Instances         3000

==== Detailed Accuracy By Class ===

      TP Rate  FP Rate  Precision  Recall   F-Measure  MCC     ROC Area  PRC Area  Class
0.592    0.499    0.551      0.592    0.571    0.094    0.550    0.538     1
0.501    0.408    0.543      0.501    0.521    0.094    0.550    0.537     0
Weighted Avg.    0.547    0.454    0.547      0.547    0.546    0.094    0.550    0.538

==== Confusion Matrix ===

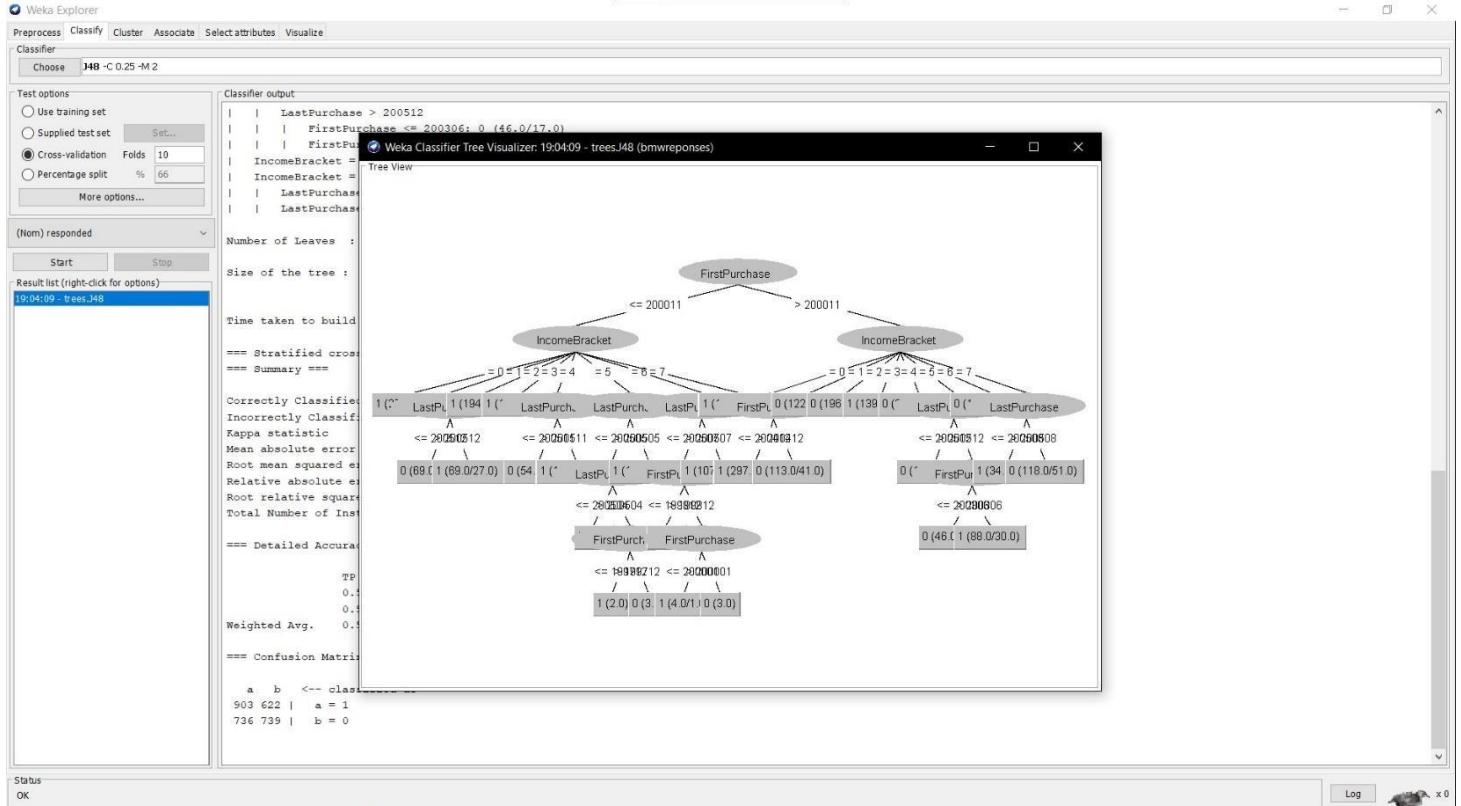
a   b   <-- classified as
903 622 |  a = 1
736 739 |  b = 0

```

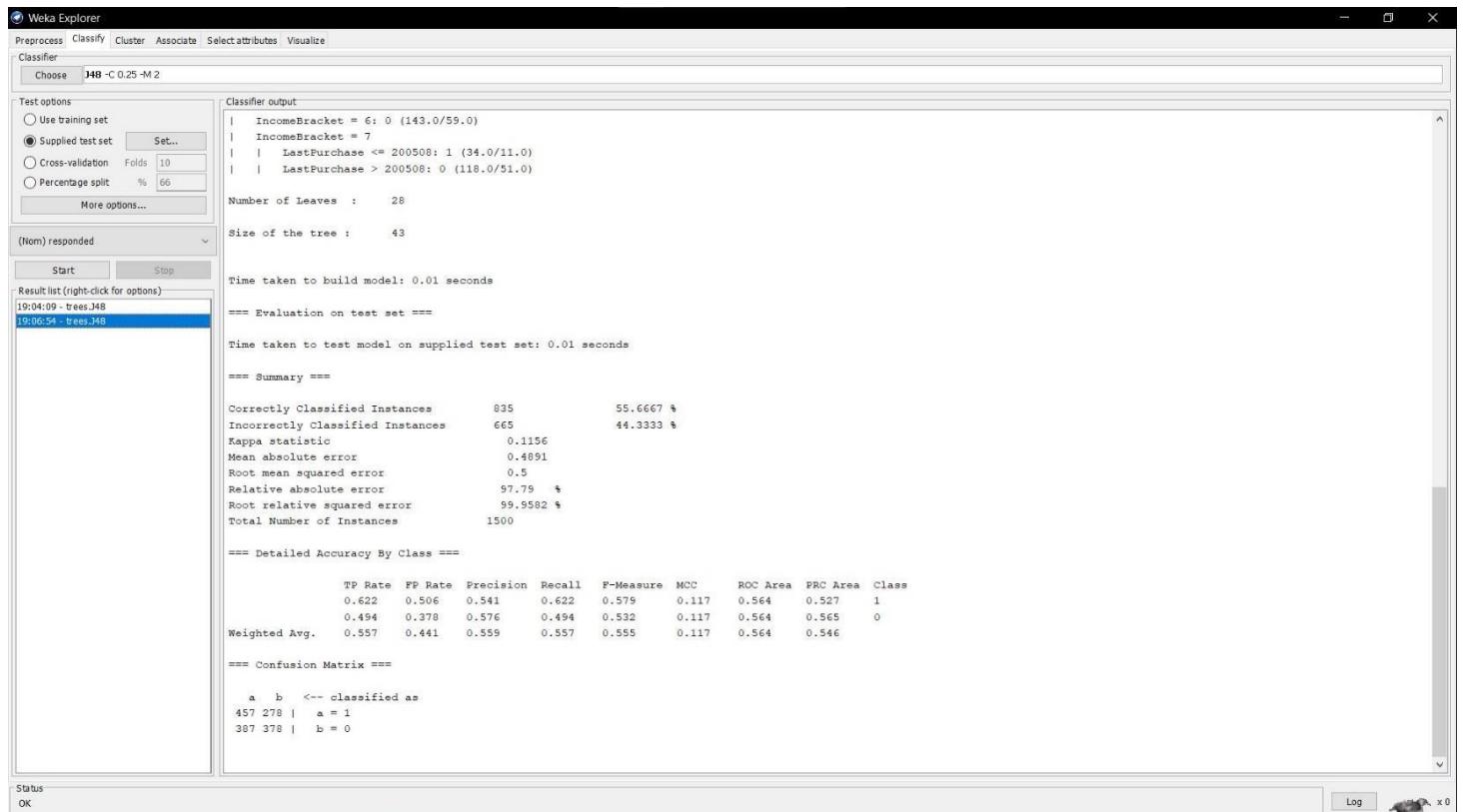
Status OK

Log x 0

Responded Start Build



Visualize Tree



Load BMW Test Set and Start Build