Model	Test Option
1. **Decision Tree C4.5 version 8**	**Use training set** `=== Summary ===` `Correctly Classified Instances 8124 100 %` `Incorrectly Classified Instances 0 0 %` `Kappa statistic 1` `Mean absolute error 0` `Root mean squared error 0` `Relative absolute error 0 %` `Root relative squared error 0 %` `Total Number of Instances 8124` `=== Detailed Accuracy By Class ===` `TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class` `1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 p` `1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 e` `Weighted Avg. 1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000` `=== Confusion Matrix ===` `a b <-- classified as` `3916 0	a = p` `0 4208	b = e`  **Percentage split 66%** `=== Summary ===`  `Correctly Classified Instances 2760 99.9276 %` `Incorrectly Classified Instances 2 0.0724 %` `Kappa statistic 0.9986` `Mean absolute error 0.0007` `Root mean squared error 0.0269` `Relative absolute error 0.145 %` `Root relative squared error 5.3817 %` `Total Number of Instances 2762`  `=== Detailed Accuracy By Class ===`  `TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class` `0.999 0.000 1.000 0.999 0.999 0.999 0.999 0.999 p` `1.000 0.001 0.999 1.000 0.999 0.999 0.999 0.999 e` `Weighted Avg. 0.999 0.001 0.999 0.999 0.999 0.999 0.999 0.999`  `=== Confusion Matrix ===`  `a b <-- classified as` `1350 2	a = p` `0 1410	b = e`

2.

Random Tree

Use training set

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2760               99.9276 %
Incorrectly Classified Instances         2                0.0724 %
Kappa statistic                          0.9986
Mean absolute error                      0.0007
Root mean squared error                  0.0269
Relative absolute error                  0.145  %
Root relative squared error              5.3817 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.999    0.000    1.000      0.999    0.999      0.999    0.999     0.999     p
                 1.000    0.001    0.999      1.000    0.999      0.999    0.999     0.999     e
Weighted Avg.    0.999    0.001    0.999      0.999    0.999      0.999    0.999     0.999

=== Confusion Matrix ===

    a    b   <-- classified as
 1350    2 |    a = p
    0 1410 |    b = e
```

3.

Random Forest

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0001
Root mean squared error                  0.0012
Relative absolute error                  0.0207 %
Root relative squared error              0.2442 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0007
Root mean squared error                  0.0042
Relative absolute error                  0.1327 %
Root relative squared error              0.8336 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

4.

Naive Bayes

Use training set

```
Time taken to build model: 0.02 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.07 seconds

=== Summary ===

Correctly Classified Instances        7790               95.8887 %
Incorrectly Classified Instances       334                4.1113 %
Kappa statistic                          0.9175
Mean absolute error                      0.0405
Root mean squared error                  0.1717
Relative absolute error                  8.1085 %
Root relative squared error             34.3721 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.923    0.008    0.991      0.923    0.956      0.920    0.998     0.998     p
                 0.992    0.077    0.933      0.992    0.962      0.920    0.998     0.998     e
Weighted Avg.    0.959    0.044    0.961      0.959    0.959      0.920    0.998     0.998

=== Confusion Matrix ===

    a    b   <-- classified as
 3614  302 |    a = p
   32 4176 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2625               95.0398 %
Incorrectly Classified Instances       137                4.9602 %
Kappa statistic                          0.9006
Mean absolute error                      0.0485
Root mean squared error                  0.1922
Relative absolute error                  9.7006 %
Root relative squared error             38.4417 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.908    0.009    0.990      0.908    0.947      0.904    0.997     0.997     p
                 0.991    0.092    0.918      0.991    0.953      0.904    0.997     0.998     e
Weighted Avg.    0.950    0.051    0.953      0.950    0.950      0.904    0.997     0.998

=== Confusion Matrix ===

    a    b   <-- classified as
 1227  125 |    a = p
   12 1398 |    b = e
```

Cross-validation folds 10

```
Time taken to build model: 0.01 seconds

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

Correctly Classified Instances        7785               95.8272 %
Incorrectly Classified Instances       339                4.1728 %
Kappa statistic                          0.9162
Mean absolute error                      0.0419
Root mean squared error                  0.1757
Relative absolute error                  8.3962 %
Root relative squared error             35.1594 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.922    0.008    0.991      0.922    0.955      0.918    0.998     0.998     p
                 0.992    0.078    0.932      0.992    0.961      0.918    0.998     0.998     e
Weighted Avg.    0.958    0.044    0.960      0.958    0.958      0.918    0.998     0.998

=== Confusion Matrix ===

    a    b   <-- classified as
 3609  307 |    a = p
   32 4176 |    b = e
```

5.

AdaBoostM1-Naive Bayes

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0.0001
Relative absolute error                  0.0004 %
Root relative squared error              0.0104 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

               TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
               1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
               1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.  1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

   a    b   <-- classified as
3916    0 |    a = p
   0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2761               99.9638 %
Incorrectly Classified Instances         1                0.0362 %
Kappa statistic                          0.9993
Mean absolute error                      0.0002
Root mean squared error                  0.0097
Relative absolute error                  0.037  %
Root relative squared error              1.9447 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

               TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
               0.999    0.000    1.000      0.999    1.000      0.999    1.000     1.000     p
               1.000    0.001    0.999      1.000    1.000      0.999    1.000     1.000     e
Weighted Avg.  1.000    0.000    1.000      1.000    1.000      0.999    1.000     1.000

=== Confusion Matrix ===

   a    b   <-- classified as
1351    1 |    a = p
   0 1410 |    b = e
```

6.

Bayes Net

Use training set

```
=== Summary ===

Correctly Classified Instances        7829               96.3688 %
Incorrectly Classified Instances       295                3.6312 %
Kappa statistic                          0.9271
Mean absolute error                      0.0364
Root mean squared error                  0.1599
Relative absolute error                  7.2844 %
Root relative squared error             31.9966 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.933    0.007    0.992      0.933    0.961      0.929    0.999     0.998     p
                 0.993    0.067    0.941      0.993    0.966      0.929    0.999     0.999     e
Weighted Avg.    0.964    0.038    0.965      0.964    0.964      0.929    0.999     0.999

=== Confusion Matrix ===

    a    b   <-- classified as
 3652  264 |    a = p
   31 4177 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2641               95.6191 %
Incorrectly Classified Instances       121                4.3809 %
Kappa statistic                          0.9122
Mean absolute error                      0.0445
Root mean squared error                  0.1822
Relative absolute error                  8.9118 %
Root relative squared error             36.4432 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.919    0.008    0.991      0.919    0.954      0.915    0.998     0.998     p
                 0.992    0.081    0.927      0.992    0.959      0.915    0.998     0.998     e
Weighted Avg.    0.956    0.045    0.958      0.956    0.956      0.915    0.998     0.998

=== Confusion Matrix ===

    a    b   <-- classified as
 1242  110 |    a = p
   11 1399 |    b = e
```

7.

IBK (using 3 neighbors)

Use training set

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0.0055 %
Root relative squared error              0.0058 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0.0055 %
Root relative squared error              0.0058 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

8.

SMO (Support Vector Classifier)

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

9.

K star

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0.0003
Relative absolute error                  0.006  %
Root relative squared error              0.0614 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0001
Root mean squared error                  0.0005
Relative absolute error                  0.0124 %
Root relative squared error              0.0952 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

10.
Classification via Regression

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0018
Root mean squared error                  0.0132
Relative absolute error                  0.3606 %
Root relative squared error              2.6395 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0032
Root mean squared error                  0.0202
Relative absolute error                  0.6496 %
Root relative squared error              4.035  %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

11.
Logistic Regression

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0
Root mean squared error                  0
Relative absolute error                  0      %
Root relative squared error              0      %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

12.
OneR

Use training set

```
=== Summary ===

Correctly Classified Instances        8004               98.5229 %
Incorrectly Classified Instances       120                1.4771 %
Kappa statistic                          0.9704
Mean absolute error                      0.0148
Root mean squared error                  0.1215
Relative absolute error                  2.958  %
Root relative squared error             24.323  %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.969    0.000    1.000      0.969    0.984      0.971    0.985     0.984     p
                 1.000    0.031    0.972      1.000    0.986      0.971    0.985     0.972     e
Weighted Avg.    0.985    0.016    0.986      0.985    0.985      0.971    0.985     0.978

=== Confusion Matrix ===

    a    b   <-- classified as
 3796  120 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2724               98.6242 %
Incorrectly Classified Instances        38                1.3758 %
Kappa statistic                          0.9725
Mean absolute error                      0.0138
Root mean squared error                  0.1173
Relative absolute error                  2.7542 %
Root relative squared error             23.4582 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.972    0.000    1.000      0.972    0.986      0.973    0.986     0.986     p
                 1.000    0.028    0.974      1.000    0.987      0.973    0.986     0.974     e
Weighted Avg.    0.986    0.014    0.987      0.986    0.986      0.973    0.986     0.980

=== Confusion Matrix ===

    a    b   <-- classified as
 1314   38 |    a = p
    0 1410 |    b = e
```

13.

Voted perceptron

Use training set

```
=== Summary ===

Correctly Classified Instances        8123               99.9877 %
Incorrectly Classified Instances         1                0.0123 %
Kappa statistic                          0.9998
Mean absolute error                      0.0001
Root mean squared error                  0.0111
Relative absolute error                  0.0247 %
Root relative squared error              2.2204 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3915    1 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2758               99.8552 %
Incorrectly Classified Instances         4                0.1448 %
Kappa statistic                          0.9971
Mean absolute error                      0.0014
Root mean squared error                  0.0381
Relative absolute error                  0.2899 %
Root relative squared error              7.6108 %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 0.997    0.000    1.000      0.997    0.999      0.997    0.999     0.998     p
                 1.000    0.003    0.997      1.000    0.999      0.997    0.999     0.997     e
Weighted Avg.    0.999    0.002    0.999      0.999    0.999      0.997    0.999     0.998

=== Confusion Matrix ===

    a    b   <-- classified as
 1348    4 |    a = p
    0 1410 |    b = e
```

14.

Multilayer Perceptron

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0001
Root mean squared error                  0.0004
Relative absolute error                  0.0288 %
Root relative squared error              0.083  %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0002
Root mean squared error                  0.0005
Relative absolute error                  0.0342 %
Root relative squared error              0.102  %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```

14.

Classification via Regression

Use training set

```
=== Summary ===

Correctly Classified Instances        8124               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0018
Root mean squared error                  0.0132
Relative absolute error                  0.3606 %
Root relative squared error              2.6395 %
Total Number of Instances             8124

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 3916    0 |    a = p
    0 4208 |    b = e
```

Percentage split 66%

```
=== Summary ===

Correctly Classified Instances        2762               100      %
Incorrectly Classified Instances         0                 0      %
Kappa statistic                          1
Mean absolute error                      0.0032
Root mean squared error                  0.0202
Relative absolute error                  0.6496 %
Root relative squared error              4.035  %
Total Number of Instances             2762

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall   F-Measure  MCC      ROC Area  PRC Area  Class
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     p
                 1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000     e
Weighted Avg.    1.000    0.000    1.000      1.000    1.000      1.000    1.000     1.000

=== Confusion Matrix ===

    a    b   <-- classified as
 1352    0 |    a = p
    0 1410 |    b = e
```