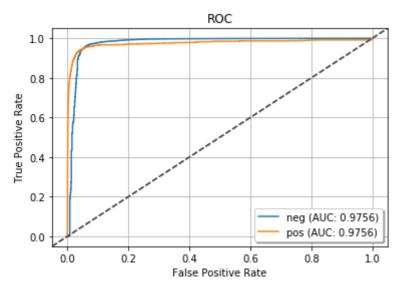
In [3]: runfile('C:/Users/amcle/Dropbox/INF_552/3_HW/Problem 2/weka_tree.py', wdir='C:/Users/amcle/Dropbox/INF_552/3_HW/Problem 2') LMT (imbalanced classes) CV = 5 Error: 0.82%

=== Confusion Matrix ===

```
a b <-- classified as
58839 161 | a = neg
330 670 | b = pos
```



59509 Correctly Classified Instances 99.1817 % Incorrectly Classified Instances 491 0.8183 % Kappa statistic 0.7277 Mean absolute error 0.0114 Root mean squared error 0.0821 34.7046 % Relative absolute error Root relative squared error 64.1664 % Total Number of Instances 60000

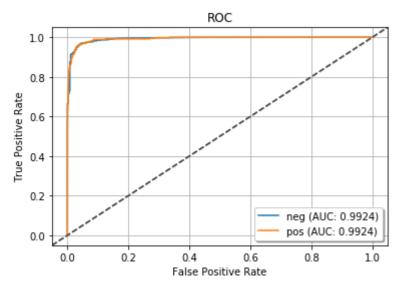
=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class 0.997 0.330 0.994 0.997 0.996 0.731 0.976 0.999 neg 0.670 0.003 0.806 0.670 0.732 0.731 0.976 0.749 pos Weighted Avg. 0.992 0.325 0.991 0.992 0.991 0.731 0.976 0.994

LMT (imbalanced classes) Test Error: 0.94%

=== Confusion Matrix ===

a b <-- classified as 15595 30 | a = neg 120 255 | b = pos



Correctly Classified Instances 15850 99.0625 % Incorrectly Classified Instances 150 0.9375 % Kappa statistic 0.768

Mean absolute error 0.0127

Root mean squared error 0.0844

Relative absolute error 27.7601 % Root relative squared error 55.7921 % Total Number of Instances 16000

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class 0.998 0.320 0.992 0.998 0.995 0.776 0.992 1.000 neg 0.680 0.002 0.895 0.680 0.773 0.776 0.992 0.850 pos Weighted Avg. 0.991 0.313 0.990 0.991 0.990 0.776 0.992 0.996