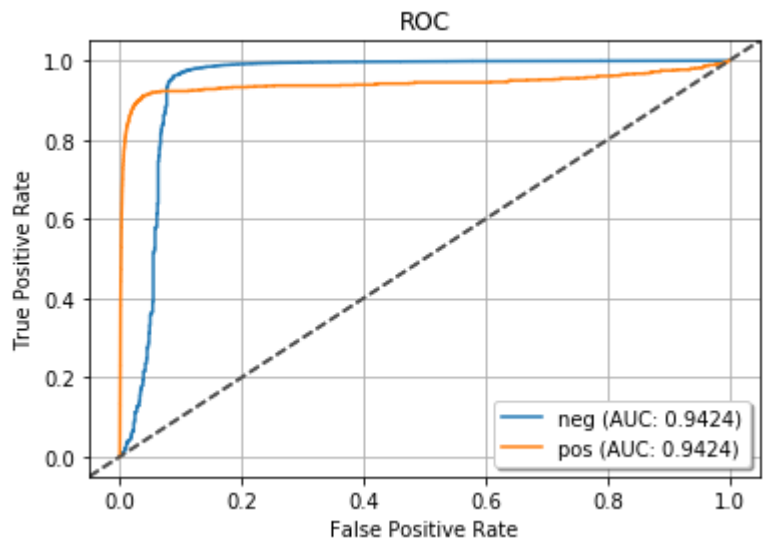


In [3]: runfile('C:/Users/amcle/Dropbox/INF_552/3_HW/Problem 2/weka_test.py', wdir='C:/Users/amcle/Dropbox/INF_552/3_HW/Problem 2')
LMT (SMOTE balanced classes) CV = 5 Error: 1.07%

==== Confusion Matrix ====

```
a  b  <-- classified as
58579 421 | a = neg
222 778 | b = pos
```



Correctly Classified Instances	59357	98.9283 %
Incorrectly Classified Instances	643	1.0717 %
Kappa statistic	0.7022	
Mean absolute error	0.0131	
Root mean squared error	0.0963	
Relative absolute error	39.8689 %	
Root relative squared error	75.2605 %	
Total Number of Instances	60000	

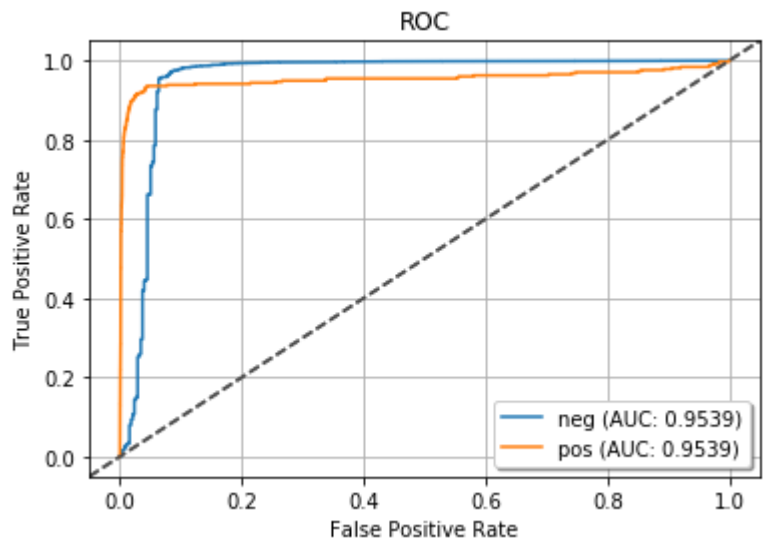
==== Detailed Accuracy By Class ====

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.993	0.222	0.996	0.993	0.995	0.705	0.942	0.997	neg
	0.778	0.007	0.649	0.778	0.708	0.705	0.942	0.676	pos
Weighted Avg.	0.989	0.218	0.990	0.989	0.990	0.705	0.942	0.992	

LMT (SMOTE balanced classes) Test Error: 1.12%

==== Confusion Matrix ====

```
a  b  <-- classified as
15516 109 | a = neg
70 305 | b = pos
```



Correctly Classified Instances	15821	98.8812 %
Incorrectly Classified Instances	179	1.1187 %
Kappa statistic	0.7674	
Mean absolute error	0.0138	
Root mean squared error	0.0988	
Relative absolute error	30.1651 %	
Root relative squared error	65.3292 %	
Total Number of Instances	16000	

==== Detailed Accuracy By Class ====

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.993	0.187	0.996	0.993	0.994	0.768	0.954	0.997	neg
	0.813	0.007	0.737	0.813	0.773	0.768	0.954	0.739	pos
Weighted Avg.	0.989	0.182	0.989	0.989	0.989	0.768	0.954	0.991	

In [4]: