

[(base) matthewmuranaka@dhcp251 NaiveBayesClassifier % python classifier.py 80

Training set size: 80.0%

Processing file...

Training classifier...

Testing classifier...

Test results / metrics:

Size of Training Set: 16392

Size of Test Set: 4099

Number of True Positives: 3380

Number of True Negatives: 435

Number of False Positives: 91

Number of False Negatives: 193

Sensitivity (Recall): 0.9459837671424574

Specificity: 0.8269961977186312

Precision: 0.9737827715355806

Negative Predictive Value: 0.6926751592356688

Accuracy: 0.9307148084898755

F-Score: 0.9596819988642817

Enter your sentence:

This hotel sucks!!!

Sentence S:

This hotel sucks!!!

was classified as Negative

$P(+ | S) = 3.32183473939076e-11$

$P(- | S) = 3.77872591823258e-11$

Do you want to enter another sentence [Y/N]?

N