=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2

Relation: smsspam-weka.filters.unsupervised.attribute.Remove-R2-weka.filters.unsupervised.instance.Resample-S1-Z10.0-no-replacement-V

Instances: 5017

Attributes: 6

class

numChars

containsNumSequence

containsCurrencySymbol

numBuzzwords

percentUppercaseLetters

Test mode: user supplied test set: size unknown (reading incrementally)

=== Classifier model (full training set) ===

J48 pruned tree

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containsNumSequence = 0

| numBuzzwords <= 1

| | percentUppercaseLetters <= 0.107143: ham (3928.0/35.0)

| | percentUppercaseLetters > 0.107143

| | | containsCurrencySymbol = 0: ham (373.0/25.0)

| | | containsCurrencySymbol = 1: spam (6.0)

| numBuzzwords > 1

| | percentUppercaseLetters <= 0.078947

| | | containsCurrencySymbol = 0: ham (110.0/17.0)

| | | containsCurrencySymbol = 1: spam (7.0/1.0)

| | percentUppercaseLetters > 0.078947: spam (75.0/14.0)

containsNumSequence = 1: spam (518.0/5.0)

Number of Leaves : 7

Size of the tree : 13

Time taken to build model: 0.07 seconds

=== Evaluation on test set ===

Time taken to test model on supplied test set: 0.01 seconds

=== Summary ===

Correctly Classified Instances 548 98.3842 %

Incorrectly Classified Instances 9 1.6158 %

Kappa statistic 0.9366

Mean absolute error 0.0336

Root mean squared error 0.1229

Relative absolute error 13.8 %

Root relative squared error 34.3036 %

Total Number of Instances 557

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class

0,992 0,060 0,989 0,992 0,990 0,937 0,976 0,992 ham

0,940 0,008 0,952 0,940 0,946 0,937 0,976 0,934 spam

Weighted Avg. 0,984 0,052 0,984 0,984 0,984 0,937 0,976 0,983

=== Confusion Matrix ===

a b <-- classified as

469 4 | a = ham

5 79 | b = spam