=== Run information ===

Scheme: weka.classifiers.functions.LibSVM -S 0 -K 2 -D 3 -G 0.0 -R 0.0 -N 0.5 -M 40.0 -C 1.0 -E 0.001 -P 0.1 -model "C:\\Program Files\\Weka-3-7" -seed 1

Relation: businessandtip\_task1\_with15categories-weka.filters.unsupervised.attribute.NominalToString-C1-2-weka.filters.unsupervised.attribute.StringToWordVector-R1,2-W2500-prune-rate-1.0-C-T-I-N1-L-S-stemmerweka.core.stemmers.NullStemmer-M1-tokenizerweka.core.tokenizers.NGramTokenizer -max 1 -min 1 -delimiters " \r\n\t.,;:\'\"()?!"-weka.filters.unsupervised.attribute.Reorder-R2-last,1-weka.filters.supervised.attribute.AttributeSelection-Eweka.attributeSelection.InfoGainAttributeEval-Sweka.attributeSelection.Ranker -T 0.0 -N -1

Instances: 7217

Attributes: 1122

[list of attributes omitted]

Test mode: 5-fold cross-validation

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

LibSVM wrapper, original code by Yasser EL-Manzalawy (= WLSVM)

Time taken to build model: 32.87 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 5540 76.7632 %

Incorrectly Classified Instances 1677 23.2368 %

Kappa statistic 0.6238

Mean absolute error 0.031

Root mean squared error 0.176

Relative absolute error 33.0411 %

Root relative squared error 81.3254 %

Coverage of cases (0.95 level) 76.7632 %

Mean rel. region size (0.95 level) 6.6667 %

Total Number of Instances 7217

=== Detailed Accuracy By Class ===

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

0.474 0.001 0.958 0.474 0.634 0.664 0.736 0.479 Doctors

0.707 0.018 0.891 0.707 0.788 0.757 0.844 0.681 Active Life

0.695 0.001 0.986 0.695 0.815 0.815 0.847 0.711 Beauty and Spas

0.992 0.412 0.702 0.992 0.822 0.632 0.790 0.700 Food

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.008 Adult Entertainment

0.440 0.006 0.882 0.440 0.587 0.599 0.717 0.441 Arts and Entertainment

0.480 0.002 0.950 0.480 0.638 0.663 0.739 0.487 Auto Repair

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.008 Professional Services

0.317 0.000 0.950 0.317 0.475 0.547 0.658 0.307 Tattoo

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.007 Electronics

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.003 Grocery

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.010 Wine Bars

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.001 Real Estate

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.000 Adult Education

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.000 Tours

Weighted Avg. 0.768 0.208 0.779 0.768 0.740 0.645 0.780 0.621

=== Confusion Matrix ===

a b c d e f g h i j k l m n o <-- classified as

161 4 1 172 0 0 1 0 1 0 0 0 0 0 0 | a = Doctors

0 889 1 350 0 17 1 0 0 0 0 0 0 0 0 | b = Active Life

3 9 423 172 0 0 2 0 0 0 0 0 0 0 0 | c = Beauty and Spas

2 11 0 3542 0 11 5 0 0 0 0 0 0 0 0 | d = Food

0 7 0 40 0 8 0 0 0 0 0 0 0 0 0 | e = Adult Entertainment

0 69 0 311 0 299 0 0 0 0 0 0 0 0 0 | f = Arts and Entertainment

1 4 1 218 0 0 207 0 0 0 0 0 0 0 0 | g = Auto Repair

1 4 0 52 0 1 0 0 0 0 0 0 0 0 0 | h = Professional Services

0 0 2 37 0 1 1 0 19 0 0 0 0 0 0 | i = Tattoo

0 0 1 46 0 1 1 0 0 0 0 0 0 0 0 | j = Electronics

0 0 0 23 0 0 0 0 0 0 0 0 0 0 0 | k = Grocery

0 0 0 74 0 0 0 0 0 0 0 0 0 0 0 | l = Wine Bars

0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 | m = Real Estate

0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 | n = Adult Education

0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 | o = Tours

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