=== 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: task1\_aggregated\_bustipreview\_withcategories-weka.filters.unsupervised.attribute.NominalToString-C2-3-weka.filters.unsupervised.attribute.RenameAttribute-findcity-replacebusiness\_city-Rfirst-last-weka.filters.unsupervised.attribute.StringToWordVector-R2,3-W2500-prune-rate-1.0-C-T-I-N1-L-S-stemmerweka.core.stemmers.SnowballStemmer-M1-tokenizerweka.core.tokenizers.NGramTokenizer -max 3 -min 3 -delimiters " \r\n\t.,;:\'\"()?!"-weka.filters.unsupervised.attribute.Reorder-R2-last,1-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: 1743

Attributes: 1542

[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: 15.04 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1294 74.2398 %

Incorrectly Classified Instances 449 25.7602 %

Kappa statistic 0.6594

Mean absolute error 0.0322

Root mean squared error 0.1794

Relative absolute error 31.2797 %

Root relative squared error 79.1563 %

Coverage of cases (0.95 level) 74.2398 %

Mean rel. region size (0.95 level) 6.25 %

Total Number of Instances 1743

=== Detailed Accuracy By Class ===

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

0.997 0.352 0.603 0.997 0.751 0.622 0.823 0.602 Food

0.638 0.006 0.892 0.638 0.744 0.740 0.816 0.593 Doctors

0.734 0.018 0.873 0.734 0.797 0.770 0.858 0.679 Active Life

0.558 0.007 0.857 0.558 0.676 0.673 0.775 0.511 Health and Medical

0.869 0.000 1.000 0.869 0.930 0.925 0.934 0.882 Auto Repair

0.329 0.000 1.000 0.329 0.495 0.565 0.664 0.357 Home Services

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.007 Wine Bars

0.929 0.001 0.986 0.929 0.957 0.954 0.964 0.923 Beauty and Spas

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.032 Fashion

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.010 Electronics

0.313 0.000 1.000 0.313 0.476 0.546 0.656 0.357 Arts and Entertainment

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.003 Financial Services

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.007 Libraries

0.071 0.000 1.000 0.071 0.133 0.266 0.536 0.079 Adult Entertainment

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.001 Gardeners

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.002 Gift Shops

Weighted Avg. 0.742 0.126 0.762 0.742 0.708 0.667 0.808 0.596

=== Confusion Matrix ===

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

606 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 | a = Food

31 74 0 11 0 0 0 0 0 0 0 0 0 0 0 0 | b = Doctors

66 0 185 0 0 0 0 1 0 0 0 0 0 0 0 0 | c = Active Life

47 9 0 72 0 0 0 1 0 0 0 0 0 0 0 0 | d = Health and Medical

22 0 0 1 152 0 0 0 0 0 0 0 0 0 0 0 | e = Auto Repair

48 0 1 0 0 24 0 0 0 0 0 0 0 0 0 0 | f = Home Services

12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | g = Wine Bars

10 0 1 0 0 0 0 145 0 0 0 0 0 0 0 0 | h = Beauty and Spas

55 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 | i = Fashion

17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | j = Electronics

57 0 20 0 0 0 0 0 0 0 35 0 0 0 0 0 | k = Arts and Entertainment

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | l = Financial Services

13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | m = Libraries

11 0 2 0 0 0 0 0 0 0 0 0 0 1 0 0 | n = Adult Entertainment

1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | o = Gardeners

3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | p = Gift Shops