=== 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 1 -min 1 -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-weka.filters.supervised.attribute.AttributeSelection-Eweka.attributeSelection.InfoGainAttributeEval-Sweka.attributeSelection.Ranker -T 0.0 -N -1

Instances: 1743

Attributes: 1912

[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: 32.32 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1618 92.8285 %

Incorrectly Classified Instances 125 7.1715 %

Kappa statistic 0.9115

Mean absolute error 0.009

Root mean squared error 0.0947

Relative absolute error 8.7082 %

Root relative squared error 41.7655 %

Coverage of cases (0.95 level) 92.8285 %

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

0.998 0.053 0.910 0.998 0.952 0.927 0.973 0.909 Food

0.888 0.006 0.912 0.888 0.900 0.893 0.941 0.817 Doctors

0.972 0.021 0.884 0.972 0.926 0.915 0.975 0.864 Active Life

0.868 0.009 0.882 0.868 0.875 0.865 0.929 0.775 Health and Medical

0.983 0.002 0.983 0.983 0.983 0.981 0.990 0.968 Auto Repair

0.849 0.000 1.000 0.849 0.919 0.919 0.925 0.856 Home Services

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.007 Wine Bars

0.981 0.000 1.000 0.981 0.990 0.989 0.990 0.982 Beauty and Spas

0.875 0.001 0.961 0.875 0.916 0.914 0.937 0.845 Fashion

0.059 0.000 1.000 0.059 0.111 0.241 0.529 0.068 Electronics

0.777 0.002 0.967 0.777 0.861 0.859 0.887 0.765 Arts and Entertainment

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.003 Financial Services

1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 Libraries

1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 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. 0.928 0.023 0.920 0.928 0.918 0.907 0.953 0.867

=== Confusion Matrix ===

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

607 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 | a = Food

1 103 1 11 0 0 0 0 0 0 0 0 0 0 0 0 | b = Doctors

5 0 245 0 0 0 0 0 0 0 2 0 0 0 0 0 | c = Active Life

4 10 2 112 0 0 0 0 1 0 0 0 0 0 0 0 | d = Health and Medical

3 0 0 0 172 0 0 0 0 0 0 0 0 0 0 0 | e = Auto Repair

5 0 5 0 1 62 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

1 0 1 1 0 0 0 153 0 0 0 0 0 0 0 0 | h = Beauty and Spas

3 0 3 1 0 0 0 0 49 0 0 0 0 0 0 0 | i = Fashion

14 0 0 0 2 0 0 0 0 1 0 0 0 0 0 0 | j = Electronics

9 0 16 0 0 0 0 0 0 0 87 0 0 0 0 0 | k = Arts and Entertainment

1 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 | l = Financial Services

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

0 0 0 0 0 0 0 0 0 0 0 0 0 14 0 0 | n = Adult Entertainment

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

2 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 | p = Gift Shops