=== 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 2 -min 2 -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: 3099

[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: 44.28 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1504 86.288 %

Incorrectly Classified Instances 239 13.712 %

Kappa statistic 0.8263

Mean absolute error 0.0171

Root mean squared error 0.1309

Relative absolute error 16.65 %

Root relative squared error 57.7513 %

Coverage of cases (0.95 level) 86.288 %

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 0.167 0.763 0.998 0.865 0.796 0.916 0.762 Food

0.871 0.006 0.918 0.871 0.894 0.887 0.933 0.808 Doctors

0.901 0.015 0.912 0.901 0.906 0.890 0.943 0.836 Active Life

0.814 0.006 0.913 0.814 0.861 0.852 0.904 0.757 Health and Medical

0.949 0.004 0.965 0.949 0.957 0.952 0.972 0.921 Auto Repair

0.712 0.000 1.000 0.712 0.832 0.839 0.856 0.724 Home Services

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.007 Wine Bars

0.962 0.000 1.000 0.962 0.980 0.979 0.981 0.965 Beauty and Spas

0.411 0.001 0.958 0.411 0.575 0.621 0.705 0.413 Fashion

0.000 0.000 0.000 0.000 0.000 0.000 0.500 0.010 Electronics

0.545 0.001 0.968 0.545 0.697 0.714 0.772 0.557 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

0.857 0.000 1.000 0.857 0.923 0.925 0.929 0.858 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. 0.863 0.062 0.856 0.863 0.845 0.820 0.901 0.762

=== 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

4 101 1 10 0 0 0 0 0 0 0 0 0 0 0 0 | b = Doctors

22 0 227 0 2 0 0 0 0 0 1 0 0 0 0 0 | c = Active Life

14 9 0 105 0 0 0 0 1 0 0 0 0 0 0 0 | d = Health and Medical

9 0 0 0 166 0 0 0 0 0 0 0 0 0 0 0 | e = Auto Repair

17 0 1 0 3 52 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

5 0 1 0 0 0 0 150 0 0 0 0 0 0 0 0 | h = Beauty and Spas

32 0 1 0 0 0 0 0 23 0 0 0 0 0 0 0 | i = Fashion

16 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | j = Electronics

33 0 18 0 0 0 0 0 0 0 61 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

2 0 0 0 0 0 0 0 0 0 0 0 0 12 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