=== 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 "D:\\Program Files\\Weka-3-8-5" -seed 1

Relation: KDDTrain20P\_05A.arff-weka.filters.unsupervised.attribute.Remove-R42-weka.filters.unsupervised.attribute.RemoveUseless-M99.0-weka.filters.unsupervised.attribute.SortLabels-R2-SNON-CASE-weka.filters.unsupervised.attribute.OrdinalToNumeric-R2-4-weka.filters.unsupervised.attribute.MathExpression-E(A-MEAN)/SD-weka.filters.unsupervised.attribute.Remove-V-R5,3,last

Instances: 25192

Attributes: 3

src\_bytes

service

class

Test mode: 10-fold cross-validation

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

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

Time taken to build model: 27.24 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 16824 66.7831 %

Incorrectly Classified Instances 8368 33.2169 %

Kappa statistic 0.3297

Mean absolute error 0.1329

Root mean squared error 0.3645

Relative absolute error 58.0346 %

Root relative squared error 107.7401 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.969 0.661 0.627 0.969 0.761 0.405 0.654 0.624 normal

0.409 0.038 0.861 0.409 0.555 0.471 0.685 0.569 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.000 0.000 ? 0.000 ? ? 0.500 0.091 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.668 0.367 ? 0.668 ? ? 0.651 0.550

=== Confusion Matrix ===

a b c d e <-- classified as

13035 414 0 0 0 | a = normal

5458 3776 0 0 0 | b = dos

131 65 13 0 0 | c = r2l

2161 128 0 0 0 | d = probe

10 1 0 0 0 | e = u2r