=== 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-Elog(1+A)-Rlast-weka.filters.unsupervised.attribute.Remove-V-R5,last

Instances: 25192

Attributes: 2

src\_bytes

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: 4.75 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 22307 88.548 %

Incorrectly Classified Instances 2885 11.452 %

Kappa statistic 0.7956

Mean absolute error 0.0458

Root mean squared error 0.214

Relative absolute error 20.0083 %

Root relative squared error 63.2615 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.931 0.089 0.923 0.931 0.927 0.843 0.921 0.896 normal

0.918 0.100 0.841 0.918 0.878 0.804 0.909 0.802 dos

0.062 0.000 0.813 0.062 0.116 0.224 0.531 0.058 r2l

0.567 0.010 0.845 0.567 0.679 0.669 0.778 0.519 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.885 0.085 ? 0.885 ? ? 0.900 0.820

=== Confusion Matrix ===

a b c d e <-- classified as

12521 688 3 237 0 | a = normal

759 8475 0 0 0 | b = dos

187 9 13 0 0 | c = r2l

90 901 0 1298 0 | d = probe

7 3 0 1 0 | e = u2r