0=== 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-R5,3,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: 3.98 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23608 93.7123 %

Incorrectly Classified Instances 1584 6.2877 %

Kappa statistic 0.8874

Mean absolute error 0.0252

Root mean squared error 0.1586

Relative absolute error 10.9855 %

Root relative squared error 46.8753 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.981 0.051 0.956 0.981 0.969 0.932 0.965 0.948 normal

0.965 0.061 0.902 0.965 0.932 0.892 0.952 0.883 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.653 0.001 0.991 0.653 0.787 0.791 0.826 0.679 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.937 0.050 ? 0.937 ? ? 0.944 0.892

=== Confusion Matrix ===

a b c d e <-- classified as

13193 248 0 8 0 | a = normal

323 8907 0 4 0 | b = dos

178 18 13 0 0 | c = r2l

92 702 0 1495 0 | d = probe

7 3 0 1 0 | e = u2r