=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2

Relation: wada

Instances: 557

Attributes: 7

mean\_x

std\_x

mean\_y

std\_y

mean\_z

std\_z

Activity

Test mode: 10-fold cross-validation

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

J48 pruned tree

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mean\_x <= -7.731182: not\_hand\_wash (92.0)

mean\_x > -7.731182

| mean\_x <= -0.085775

| | mean\_z <= 4.677608: hand\_wash (226.0/18.0)

| | mean\_z > 4.677608

| | | std\_x <= 0.285736: hand\_wash (16.0)

| | | std\_x > 0.285736

| | | | mean\_x <= -3.023383: hand\_wash (19.0/2.0)

| | | | mean\_x > -3.023383: not\_hand\_wash (35.0/3.0)

| mean\_x > -0.085775

| | std\_x <= 2.216671

| | | mean\_z <= 6.596053

| | | | mean\_z <= -0.689161

| | | | | mean\_x <= 2.100162: hand\_wash (3.0)

| | | | | mean\_x > 2.100162: not\_hand\_wash (5.0)

| | | | mean\_z > -0.689161: not\_hand\_wash (134.0/2.0)

| | | mean\_z > 6.596053

| | | | mean\_x <= 2.992553: hand\_wash (5.0/1.0)

| | | | mean\_x > 2.992553: not\_hand\_wash (3.0)

| | std\_x > 2.216671

| | | mean\_y <= -1.304123

| | | | std\_z <= 2.535311: not\_hand\_wash (2.0)

| | | | std\_z > 2.535311: hand\_wash (13.0)

| | | mean\_y > -1.304123: not\_hand\_wash (4.0)

Number of Leaves : 13

Size of the tree : 25

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 510 91.5619 %

Incorrectly Classified Instances 47 8.4381 %

Kappa statistic 0.8311

Mean absolute error 0.109

Root mean squared error 0.2797

Relative absolute error 21.8502 %

Root relative squared error 55.9886 %

Total Number of Instances 557

=== Detailed Accuracy By Class ===

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

0.925 0.093 0.901 0.925 0.913 0.831 0.937 0.910 hand\_wash

0.907 0.075 0.930 0.907 0.918 0.831 0.937 0.929 not\_hand\_wash

Weighted Avg. 0.916 0.084 0.916 0.916 0.916 0.831 0.937 0.920

=== Confusion Matrix ===

a b <-- classified as

246 20 | a = hand\_wash

27 264 | b = not\_hand\_wash

