=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 6063

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 5145 84.859 %

Incorrectly Classified Instances 918 15.141 %

Kappa statistic 0.7726

Mean absolute error 0.1019

Root mean squared error 0.3142

Relative absolute error 22.9589 %

Root relative squared error 66.6937 %

Total Number of Instances 6063

=== Detailed Accuracy By Class ===

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

0,911 0,042 0,910 0,911 0,911 0,869 0,937 0,870 1

0,773 0,090 0,811 0,773 0,791 0,692 0,846 0,729 2

0,863 0,097 0,828 0,863 0,845 0,759 0,890 0,779 3

Weighted Avg. 0,849 0,077 0,848 0,849 0,848 0,772 0,890 0,791

=== Confusion Matrix ===

a b c <-- classified as

1749 113 57 | a = 1

131 1554 325 | b = 2

42 250 1842 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 3016

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 2535 84.0517 %

Incorrectly Classified Instances 481 15.9483 %

Kappa statistic 0.7605

Mean absolute error 0.1082

Root mean squared error 0.3238

Relative absolute error 24.3741 %

Root relative squared error 68.7091 %

Total Number of Instances 3016

=== Detailed Accuracy By Class ===

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

0,916 0,046 0,903 0,916 0,909 0,866 0,936 0,853 1

0,764 0,083 0,819 0,764 0,791 0,694 0,838 0,721 2

0,843 0,112 0,803 0,843 0,823 0,724 0,870 0,745 3

Weighted Avg. 0,841 0,081 0,840 0,841 0,840 0,760 0,880 0,772

=== Confusion Matrix ===

a b c <-- classified as

884 38 43 | a = 1

58 758 176 | b = 2

37 129 893 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 3929

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3618 92.0845 %

Incorrectly Classified Instances 311 7.9155 %

Kappa statistic 0.8417

Mean absolute error 0.0532

Root mean squared error 0.228

Relative absolute error 15.9528 %

Root relative squared error 55.8624 %

Total Number of Instances 3929

=== Detailed Accuracy By Class ===

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

0,926 0,084 0,913 0,926 0,920 0,842 0,925 0,889 1

0,916 0,074 0,928 0,916 0,922 0,842 0,925 0,901 2

? 0,000 ? ? ? ? ? ? 3

Weighted Avg. 0,921 0,079 0,921 0,921 0,921 0,842 0,925 0,895

=== Confusion Matrix ===

a b c <-- classified as

1777 142 0 | a = 1

169 1841 0 | b = 2

0 0 0 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3885 95.8549 %

Incorrectly Classified Instances 168 4.1451 %

Kappa statistic 0.9168

Mean absolute error 0.0281

Root mean squared error 0.1653

Relative absolute error 8.4579 %

Root relative squared error 40.5475 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,953 0,036 0,960 0,953 0,956 0,917 0,960 0,945 1

? 0,000 ? ? ? ? ? ? 2

0,964 0,047 0,958 0,964 0,961 0,917 0,960 0,947 3

Weighted Avg. 0,959 0,042 0,959 0,959 0,959 0,917 0,960 0,946

=== Confusion Matrix ===

a b c <-- classified as

1828 0 91 | a = 1

0 0 0 | b = 2

77 0 2057 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 4144

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3553 85.7384 %

Incorrectly Classified Instances 591 14.2616 %

Kappa statistic 0.7142

Mean absolute error 0.0966

Root mean squared error 0.3054

Relative absolute error 28.9939 %

Root relative squared error 74.84 %

Total Number of Instances 4144

=== Detailed Accuracy By Class ===

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

? 0,000 ? ? ? ? ? ? 1

0,835 0,122 0,866 0,835 0,850 0,715 0,859 0,821 2

0,878 0,165 0,850 0,878 0,864 0,715 0,859 0,820 3

Weighted Avg. 0,857 0,144 0,858 0,857 0,857 0,715 0,859 0,820

=== Confusion Matrix ===

a b c <-- classified as

0 0 0 | a = 1

0 1679 331 | b = 2

0 260 1874 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 1957

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1792 91.5687 %

Incorrectly Classified Instances 165 8.4313 %

Kappa statistic 0.8314

Mean absolute error 0.0574

Root mean squared error 0.2372

Relative absolute error 17.2193 %

Root relative squared error 58.1095 %

Total Number of Instances 1957

=== Detailed Accuracy By Class ===

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

0,927 0,096 0,904 0,927 0,916 0,832 0,913 0,871 1

0,904 0,073 0,928 0,904 0,916 0,832 0,913 0,895 2

? 0,000 ? ? ? ? ? ? 3

Weighted Avg. 0,916 0,084 0,916 0,916 0,916 0,832 0,913 0,884

=== Confusion Matrix ===

a b c <-- classified as

895 70 0 | a = 1

95 897 0 | b = 2

0 0 0 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 2024

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1904 94.0711 %

Incorrectly Classified Instances 120 5.9289 %

Kappa statistic 0.8811

Mean absolute error 0.0402

Root mean squared error 0.1986

Relative absolute error 12.0739 %

Root relative squared error 48.7114 %

Total Number of Instances 2024

=== Detailed Accuracy By Class ===

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

0,933 0,052 0,942 0,933 0,937 0,881 0,941 0,917 1

? 0,000 ? ? ? ? ? ? 2

0,948 0,067 0,939 0,948 0,944 0,881 0,941 0,924 3

Weighted Avg. 0,941 0,060 0,941 0,941 0,941 0,881 0,941 0,921

=== Confusion Matrix ===

a b c <-- classified as

900 0 65 | a = 1

0 0 0 | b = 2

55 0 1004 | c = 3

=== Run information ===

Scheme: weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation: Partitura

Instances: 2051

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1708 83.2765 %

Incorrectly Classified Instances 343 16.7235 %

Kappa statistic 0.6648

Mean absolute error 0.1127

Root mean squared error 0.3288

Relative absolute error 33.8215 %

Root relative squared error 80.5803 %

Total Number of Instances 2051

=== Detailed Accuracy By Class ===

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

? 0,000 ? ? ? ? ? ? 1

0,807 0,144 0,841 0,807 0,824 0,665 0,842 0,794 2

0,856 0,193 0,826 0,856 0,841 0,665 0,842 0,796 3

Weighted Avg. 0,833 0,169 0,833 0,833 0,833 0,665 0,842 0,795

=== Confusion Matrix ===

a b c <-- classified as

0 0 0 | a = 1

0 801 191 | b = 2

0 152 907 | c = 3

=== Run information ===

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

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

J48 pruned tree

------------------

Tonalità <= -4: 1 (878.0)

Tonalità > -4

| Tonalità <= 3

| | Intervallo\_5arm <= 2

| | | Intervallo\_7up <= 7

| | | | Intervallo\_9arm <= 3

| | | | | Intervallo\_9dn <= 5

| | | | | | Modo <= -1

| | | | | | | Tonalità <= -1

| | | | | | | | Tonalità <= -3

| | | | | | | | | Pause <= 15: 3 (176.0/2.0)

| | | | | | | | | Pause > 15

| | | | | | | | | | Intervallo\_0 <= 3: 1 (2.0)

| | | | | | | | | | Intervallo\_0 > 3: 3 (6.0)

| | | | | | | | Tonalità > -3

| | | | | | | | | Tonalità <= -2

| | | | | | | | | | Intervallo\_4up <= 2

| | | | | | | | | | | Nota\_LA# <= 11

| | | | | | | | | | | | Intervallo\_6arm <= 2

| | | | | | | | | | | | | Intervallo\_10dn <= 0

| | | | | | | | | | | | | | Intervallo\_7arm <= 0

| | | | | | | | | | | | | | | Intervallo\_4up <= 0

| | | | | | | | | | | | | | | | Intervallo\_6up <= 0

| | | | | | | | | | | | | | | | | Intervallo\_7up <= 0

| | | | | | | | | | | | | | | | | | Intervallo\_7dn <= 0: 1 (19.0/7.0)

| | | | | | | | | | | | | | | | | | Intervallo\_7dn > 0: 3 (6.0)

| | | | | | | | | | | | | | | | | Intervallo\_7up > 0: 3 (2.0)

| | | | | | | | | | | | | | | | Intervallo\_6up > 0: 1 (7.0)

| | | | | | | | | | | | | | | Intervallo\_4up > 0: 3 (11.0/1.0)

| | | | | | | | | | | | | | Intervallo\_7arm > 0: 1 (6.0)

| | | | | | | | | | | | | Intervallo\_10dn > 0: 3 (12.0/1.0)

| | | | | | | | | | | | Intervallo\_6arm > 2: 1 (6.0)

| | | | | | | | | | | Nota\_LA# > 11: 1 (12.0)

| | | | | | | | | | Intervallo\_4up > 2: 3 (18.0)

| | | | | | | | | Tonalità > -2

| | | | | | | | | | Intervallo\_2up <= 17: 3 (184.0/5.0)

| | | | | | | | | | Intervallo\_2up > 17

| | | | | | | | | | | Note\_Staccate <= 0: 3 (6.0)

| | | | | | | | | | | Note\_Staccate > 0: 1 (3.0)

| | | | | | | Tonalità > -1

| | | | | | | | Intervallo\_0 <= 9

| | | | | | | | | Nota\_SI <= 0

| | | | | | | | | | Tonalità <= 2: 1 (12.0)

| | | | | | | | | | Tonalità > 2

| | | | | | | | | | | Nota\_FA <= 1: 3 (6.0)

| | | | | | | | | | | Nota\_FA > 1: 1 (2.0)

| | | | | | | | | Nota\_SI > 0: 1 (134.0)

| | | | | | | | Intervallo\_0 > 9

| | | | | | | | | Nota\_RE# <= 3: 3 (19.0/1.0)

| | | | | | | | | Nota\_RE# > 3: 1 (4.0)

| | | | | | Modo > -1

| | | | | | | Intervallo\_2arm <= 0

| | | | | | | | Tonalità <= 2

| | | | | | | | | Tonalità <= 0

| | | | | | | | | | Pause <= 23

| | | | | | | | | | | Nota\_SOL# <= 6: 3 (1052.0/34.0)

| | | | | | | | | | | Nota\_SOL# > 6

| | | | | | | | | | | | Intervallo\_1dn <= 0: 1 (5.0)

| | | | | | | | | | | | Intervallo\_1dn > 0

| | | | | | | | | | | | | Nota\_DO <= 4

| | | | | | | | | | | | | | Intervallo\_10up <= 0

| | | | | | | | | | | | | | | Intervallo\_9arm <= 1: 3 (18.0)

| | | | | | | | | | | | | | | Intervallo\_9arm > 1: 1 (7.0/1.0)

| | | | | | | | | | | | | | Intervallo\_10up > 0

| | | | | | | | | | | | | | | Nota\_DO# <= 0: 3 (2.0)

| | | | | | | | | | | | | | | Nota\_DO# > 0: 1 (6.0)

| | | | | | | | | | | | | Nota\_DO > 4: 3 (39.0)

| | | | | | | | | | Pause > 23

| | | | | | | | | | | Nota\_LA# <= 9

| | | | | | | | | | | | Intervallo\_1dn <= 5: 3 (14.0/2.0)

| | | | | | | | | | | | Intervallo\_1dn > 5: 1 (12.0/1.0)

| | | | | | | | | | | Nota\_LA# > 9: 3 (23.0)

| | | | | | | | | Tonalità > 0

| | | | | | | | | | Tonalità <= 1: 1 (16.0)

| | | | | | | | | | Tonalità > 1

| | | | | | | | | | | Intervallo\_7arm <= 0

| | | | | | | | | | | | Note\_Staccate <= 1

| | | | | | | | | | | | | Intervallo\_10up <= 1: 3 (57.0)

| | | | | | | | | | | | | Intervallo\_10up > 1

| | | | | | | | | | | | | | Intervallo\_10dn <= 0: 1 (2.0)

| | | | | | | | | | | | | | Intervallo\_10dn > 0: 3 (6.0)

| | | | | | | | | | | | Note\_Staccate > 1

| | | | | | | | | | | | | Nota\_RE# <= 0

| | | | | | | | | | | | | | Intervallo\_3uo <= 2

| | | | | | | | | | | | | | | Intervallo\_1up <= 7

| | | | | | | | | | | | | | | | Intervallo\_12 <= 2: 1 (15.0)

| | | | | | | | | | | | | | | | Intervallo\_12 > 2: 3 (3.0/1.0)

| | | | | | | | | | | | | | | Intervallo\_1up > 7: 3 (2.0)

| | | | | | | | | | | | | | Intervallo\_3uo > 2: 3 (4.0)

| | | | | | | | | | | | | Nota\_RE# > 0: 3 (19.0)

| | | | | | | | | | | Intervallo\_7arm > 0

| | | | | | | | | | | | Intervallo\_4arm <= 0: 1 (5.0)

| | | | | | | | | | | | Intervallo\_4arm > 0: 3 (2.0)

| | | | | | | | Tonalità > 2: 3 (268.0)

| | | | | | | Intervallo\_2arm > 0

| | | | | | | | Pause <= 18

| | | | | | | | | Intervallo\_7up <= 5

| | | | | | | | | | Nota\_LA# <= 0

| | | | | | | | | | | Intervallo\_12 <= 2

| | | | | | | | | | | | Intervallo\_3dn <= 0

| | | | | | | | | | | | | Intervallo\_1up <= 0: 3 (3.0)

| | | | | | | | | | | | | Intervallo\_1up > 0: 1 (5.0)

| | | | | | | | | | | | Intervallo\_3dn > 0: 3 (13.0)

| | | | | | | | | | | Intervallo\_12 > 2: 1 (2.0)

| | | | | | | | | | Nota\_LA# > 0: 3 (35.0)

| | | | | | | | | Intervallo\_7up > 5: 1 (3.0)

| | | | | | | | Pause > 18: 1 (20.0/1.0)

| | | | | Intervallo\_9dn > 5

| | | | | | Intervallo\_3dn <= 7

| | | | | | | Intervallo\_7arm <= 1

| | | | | | | | Intervallo\_2dn <= 2: 1 (20.0)

| | | | | | | | Intervallo\_2dn > 2

| | | | | | | | | Nota\_MI <= 6: 3 (2.0)

| | | | | | | | | Nota\_MI > 6: 1 (4.0)

| | | | | | | Intervallo\_7arm > 1: 3 (3.0)

| | | | | | Intervallo\_3dn > 7: 3 (6.0)

| | | | Intervallo\_9arm > 3

| | | | | Intervallo\_12 <= 4

| | | | | | Nota\_SOL# <= 6

| | | | | | | Intervallo\_11up <= 1

| | | | | | | | Intervallo\_3dn <= 1

| | | | | | | | | Nota\_RE <= 2: 1 (10.0)

| | | | | | | | | Nota\_RE > 2

| | | | | | | | | | Nota\_SOL <= 1: 1 (3.0)

| | | | | | | | | | Nota\_SOL > 1

| | | | | | | | | | | Nota\_LA# <= 7: 3 (12.0)

| | | | | | | | | | | Nota\_LA# > 7: 1 (3.0)

| | | | | | | | Intervallo\_3dn > 1

| | | | | | | | | Intervallo\_8dn <= 1: 3 (32.0/1.0)

| | | | | | | | | Intervallo\_8dn > 1

| | | | | | | | | | Nota\_RE# <= 0: 3 (2.0)

| | | | | | | | | | Nota\_RE# > 0: 1 (2.0)

| | | | | | | Intervallo\_11up > 1: 1 (3.0)

| | | | | | Nota\_SOL# > 6: 1 (10.0)

| | | | | Intervallo\_12 > 4: 1 (14.0)

| | | Intervallo\_7up > 7

| | | | Intervallo\_3uo <= 7

| | | | | Nota\_FA <= 23

| | | | | | Intervallo\_1up <= 1

| | | | | | | Intervallo\_3uo <= 4: 1 (43.0)

| | | | | | | Intervallo\_3uo > 4

| | | | | | | | Intervallo\_9up <= 3: 3 (2.0)

| | | | | | | | Intervallo\_9up > 3: 1 (7.0)

| | | | | | Intervallo\_1up > 1

| | | | | | | Intervallo\_9up <= 1: 3 (5.0)

| | | | | | | Intervallo\_9up > 1: 1 (7.0/1.0)

| | | | | Nota\_FA > 23: 3 (3.0)

| | | | Intervallo\_3uo > 7

| | | | | Modo <= -1: 1 (3.0)

| | | | | Modo > -1

| | | | | | Intervallo\_11dn <= 0: 3 (12.0)

| | | | | | Intervallo\_11dn > 0

| | | | | | | Intervallo\_10dn <= 1: 1 (3.0)

| | | | | | | Intervallo\_10dn > 1: 3 (3.0)

| | Intervallo\_5arm > 2

| | | Intervallo\_7up <= 3

| | | | Intervallo\_11dn <= 3

| | | | | Modo <= -1

| | | | | | Tonalità <= -3: 3 (14.0)

| | | | | | Tonalità > -3

| | | | | | | Tonalità <= -1

| | | | | | | | Tonalità <= -2: 1 (18.0)

| | | | | | | | Tonalità > -2: 3 (9.0)

| | | | | | | Tonalità > -1: 1 (27.0)

| | | | | Modo > -1

| | | | | | Intervallo\_6up <= 1

| | | | | | | Intervallo\_5dn <= 0

| | | | | | | | Nota\_SOL# <= 1: 1 (3.0)

| | | | | | | | Nota\_SOL# > 1: 3 (5.0)

| | | | | | | Intervallo\_5dn > 0: 3 (35.0/1.0)

| | | | | | Intervallo\_6up > 1

| | | | | | | Intervallo\_4arm <= 4: 1 (9.0)

| | | | | | | Intervallo\_4arm > 4

| | | | | | | | Intervallo\_9up <= 3: 3 (10.0/1.0)

| | | | | | | | Intervallo\_9up > 3: 1 (3.0)

| | | | Intervallo\_11dn > 3: 1 (10.0)

| | | Intervallo\_7up > 3

| | | | Intervallo\_1up <= 2

| | | | | Nota\_DO# <= 1

| | | | | | Intervallo\_6arm <= 0

| | | | | | | Intervallo\_3uo <= 4: 1 (8.0)

| | | | | | | Intervallo\_3uo > 4: 3 (7.0/1.0)

| | | | | | Intervallo\_6arm > 0: 1 (35.0/1.0)

| | | | | Nota\_DO# > 1: 1 (69.0)

| | | | Intervallo\_1up > 2

| | | | | Nota\_LA <= 2: 1 (7.0/1.0)

| | | | | Nota\_LA > 2: 3 (4.0)

| Tonalità > 3: 1 (377.0)

Number of Leaves : 95

Size of the tree : 189

Time taken to build model: 0.56 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3806 93.9057 %

Incorrectly Classified Instances 247 6.0943 %

Kappa statistic 0.8778

Mean absolute error 0.0459

Root mean squared error 0.1949

Relative absolute error 13.7982 %

Root relative squared error 47.7979 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,936 0,058 0,935 0,936 0,936 0,878 0,952 0,939 1

? 0,000 ? ? ? ? ? ? 2

0,942 0,064 0,942 0,942 0,942 0,878 0,952 0,929 3

Weighted Avg. 0,939 0,061 0,939 0,939 0,939 0,878 0,952 0,934

=== Confusion Matrix ===

a b c <-- classified as

1796 0 123 | a = 1

0 0 0 | b = 2

124 0 2010 | c = 3

=== Run information ===

Scheme: weka.classifiers.trees.J48 -U -M 2

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

J48 unpruned tree

------------------

Tonalità <= -4: 1 (878.0)

Tonalità > -4

| Tonalità <= 3

| | Intervallo\_5arm <= 2

| | | Intervallo\_7up <= 7

| | | | Intervallo\_9arm <= 3

| | | | | Intervallo\_9dn <= 5

| | | | | | Modo <= -1

| | | | | | | Tonalità <= -1

| | | | | | | | Tonalità <= -3

| | | | | | | | | Pause <= 15: 3 (176.0/2.0)

| | | | | | | | | Pause > 15

| | | | | | | | | | Intervallo\_0 <= 3: 1 (2.0)

| | | | | | | | | | Intervallo\_0 > 3: 3 (6.0)

| | | | | | | | Tonalità > -3

| | | | | | | | | Tonalità <= -2

| | | | | | | | | | Intervallo\_4up <= 2

| | | | | | | | | | | Intervallo\_8dn <= 1

| | | | | | | | | | | | Nota\_LA# <= 11

| | | | | | | | | | | | | Intervallo\_6arm <= 2

| | | | | | | | | | | | | | Intervallo\_10dn <= 0

| | | | | | | | | | | | | | | Intervallo\_7arm <= 0

| | | | | | | | | | | | | | | | Intervallo\_4up <= 0

| | | | | | | | | | | | | | | | | Intervallo\_6up <= 0

| | | | | | | | | | | | | | | | | | Intervallo\_3dn <= 0

| | | | | | | | | | | | | | | | | | | Intervallo\_7up <= 0

| | | | | | | | | | | | | | | | | | | | Intervallo\_7dn <= 0

| | | | | | | | | | | | | | | | | | | | | Intervallo\_5dn <= 0

| | | | | | | | | | | | | | | | | | | | | | Nota\_SOL <= 1: 1 (11.0/4.0)

| | | | | | | | | | | | | | | | | | | | | | Nota\_SOL > 1: 3 (2.0)

| | | | | | | | | | | | | | | | | | | | | Intervallo\_5dn > 0: 1 (5.0)

| | | | | | | | | | | | | | | | | | | | Intervallo\_7dn > 0: 3 (2.0)

| | | | | | | | | | | | | | | | | | | Intervallo\_7up > 0: 3 (2.0)

| | | | | | | | | | | | | | | | | | Intervallo\_3dn > 0: 3 (5.0)

| | | | | | | | | | | | | | | | | Intervallo\_6up > 0: 1 (6.0)

| | | | | | | | | | | | | | | | Intervallo\_4up > 0: 3 (11.0/1.0)

| | | | | | | | | | | | | | | Intervallo\_7arm > 0: 1 (5.0)

| | | | | | | | | | | | | | Intervallo\_10dn > 0: 3 (11.0)

| | | | | | | | | | | | | Intervallo\_6arm > 2: 1 (3.0)

| | | | | | | | | | | | Nota\_LA# > 11: 1 (10.0)

| | | | | | | | | | | Intervallo\_8dn > 1: 1 (8.0)

| | | | | | | | | | Intervallo\_4up > 2: 3 (18.0)

| | | | | | | | | Tonalità > -2

| | | | | | | | | | Intervallo\_2up <= 17

| | | | | | | | | | | Nota\_SOL# <= 3: 3 (154.0/1.0)

| | | | | | | | | | | Nota\_SOL# > 3

| | | | | | | | | | | | Note\_Staccate <= 0: 3 (28.0/2.0)

| | | | | | | | | | | | Note\_Staccate > 0: 1 (2.0)

| | | | | | | | | | Intervallo\_2up > 17

| | | | | | | | | | | Note\_Staccate <= 0: 3 (6.0)

| | | | | | | | | | | Note\_Staccate > 0: 1 (3.0)

| | | | | | | Tonalità > -1

| | | | | | | | Intervallo\_0 <= 9

| | | | | | | | | Nota\_SI <= 0

| | | | | | | | | | Tonalità <= 2: 1 (12.0)

| | | | | | | | | | Tonalità > 2

| | | | | | | | | | | Nota\_FA <= 1: 3 (6.0)

| | | | | | | | | | | Nota\_FA > 1: 1 (2.0)

| | | | | | | | | Nota\_SI > 0: 1 (134.0)

| | | | | | | | Intervallo\_0 > 9

| | | | | | | | | Nota\_RE# <= 3: 3 (19.0/1.0)

| | | | | | | | | Nota\_RE# > 3: 1 (4.0)

| | | | | | Modo > -1

| | | | | | | Intervallo\_2arm <= 0

| | | | | | | | Tonalità <= 2

| | | | | | | | | Tonalità <= 0

| | | | | | | | | | Intervallo\_9arm <= 2

| | | | | | | | | | | Pause <= 23

| | | | | | | | | | | | Nota\_SOL# <= 6

| | | | | | | | | | | | | Nota\_FA# <= 3

| | | | | | | | | | | | | | Intervallo\_5up <= 0: 3 (318.0/3.0)

| | | | | | | | | | | | | | Intervallo\_5up > 0

| | | | | | | | | | | | | | | Intervallo\_4arm <= 2

| | | | | | | | | | | | | | | | Intervallo\_6up <= 2

| | | | | | | | | | | | | | | | | Intervallo\_6arm <= 0

| | | | | | | | | | | | | | | | | | Nota\_RE <= 9

| | | | | | | | | | | | | | | | | | | Intervallo\_11up <= 0

| | | | | | | | | | | | | | | | | | | | Note\_Staccate <= 3

| | | | | | | | | | | | | | | | | | | | | Intervallo\_9dn <= 1: 3 (202.0/2.0)

| | | | | | | | | | | | | | | | | | | | | Intervallo\_9dn > 1

| | | | | | | | | | | | | | | | | | | | | | Intervallo\_4arm <= 1

| | | | | | | | | | | | | | | | | | | | | | | Intervallo\_12 <= 1: 3 (14.0)

| | | | | | | | | | | | | | | | | | | | | | | Intervallo\_12 > 1

| | | | | | | | | | | | | | | | | | | | | | | | Pause <= 7: 3 (2.0)

| | | | | | | | | | | | | | | | | | | | | | | | Pause > 7: 1 (2.0)

| | | | | | | | | | | | | | | | | | | | | | Intervallo\_4arm > 1: 1 (3.0)

| | | | | | | | | | | | | | | | | | | | Note\_Staccate > 3

| | | | | | | | | | | | | | | | | | | | | Intervallo\_4dn <= 0

| | | | | | | | | | | | | | | | | | | | | | Intervallo\_4up <= 3

| | | | | | | | | | | | | | | | | | | | | | | Nota\_DO# <= 4

| | | | | | | | | | | | | | | | | | | | | | | | Nota\_SOL# <= 2: 3 (18.0/1.0)

| | | | | | | | | | | | | | | | | | | | | | | | Nota\_SOL# > 2: 1 (3.0/1.0)

| | | | | | | | | | | | | | | | | | | | | | | Nota\_DO# > 4: 1 (2.0)

| | | | | | | | | | | | | | | | | | | | | | Intervallo\_4up > 3: 1 (7.0)

| | | | | | | | | | | | | | | | | | | | | Intervallo\_4dn > 0

| | | | | | | | | | | | | | | | | | | | | | Nota\_SOL# <= 2: 3 (64.0)

| | | | | | | | | | | | | | | | | | | | | | Nota\_SOL# > 2

| | | | | | | | | | | | | | | | | | | | | | | Nota\_LA <= 0: 1 (4.0/1.0)

| | | | | | | | | | | | | | | | | | | | | | | Nota\_LA > 0: 3 (5.0)

| | | | | | | | | | | | | | | | | | | Intervallo\_11up > 0

| | | | | | | | | | | | | | | | | | | | Intervallo\_3uo <= 1: 1 (4.0/1.0)

| | | | | | | | | | | | | | | | | | | | Intervallo\_3uo > 1: 3 (9.0)

| | | | | | | | | | | | | | | | | | Nota\_RE > 9: 3 (102.0)

| | | | | | | | | | | | | | | | | Intervallo\_6arm > 0: 3 (30.0)

| | | | | | | | | | | | | | | | Intervallo\_6up > 2

| | | | | | | | | | | | | | | | | Intervallo\_4dn <= 10: 3 (19.0/1.0)

| | | | | | | | | | | | | | | | | Intervallo\_4dn > 10: 1 (3.0)

| | | | | | | | | | | | | | | Intervallo\_4arm > 2: 3 (66.0)

| | | | | | | | | | | | | Nota\_FA# > 3: 3 (158.0)

| | | | | | | | | | | | Nota\_SOL# > 6

| | | | | | | | | | | | | Intervallo\_1dn <= 0: 1 (5.0)

| | | | | | | | | | | | | Intervallo\_1dn > 0

| | | | | | | | | | | | | | Nota\_DO <= 4

| | | | | | | | | | | | | | | Intervallo\_10up <= 0

| | | | | | | | | | | | | | | | Intervallo\_9arm <= 1: 3 (18.0)

| | | | | | | | | | | | | | | | Intervallo\_9arm > 1: 1 (3.0/1.0)

| | | | | | | | | | | | | | | Intervallo\_10up > 0

| | | | | | | | | | | | | | | | Nota\_DO# <= 0: 3 (2.0)

| | | | | | | | | | | | | | | | Nota\_DO# > 0: 1 (5.0)

| | | | | | | | | | | | | | Nota\_DO > 4: 3 (37.0)

| | | | | | | | | | | Pause > 23

| | | | | | | | | | | | Nota\_LA# <= 9

| | | | | | | | | | | | | Intervallo\_1dn <= 5: 3 (13.0/1.0)

| | | | | | | | | | | | | Intervallo\_1dn > 5: 1 (12.0/1.0)

| | | | | | | | | | | | Nota\_LA# > 9: 3 (23.0)

| | | | | | | | | | Intervallo\_9arm > 2

| | | | | | | | | | | Intervallo\_4dn <= 0: 1 (6.0)

| | | | | | | | | | | Intervallo\_4dn > 0: 3 (19.0/2.0)

| | | | | | | | | Tonalità > 0

| | | | | | | | | | Tonalità <= 1: 1 (16.0)

| | | | | | | | | | Tonalità > 1

| | | | | | | | | | | Intervallo\_7arm <= 0

| | | | | | | | | | | | Note\_Staccate <= 1

| | | | | | | | | | | | | Intervallo\_10up <= 1: 3 (57.0)

| | | | | | | | | | | | | Intervallo\_10up > 1

| | | | | | | | | | | | | | Intervallo\_10dn <= 0: 1 (2.0)

| | | | | | | | | | | | | | Intervallo\_10dn > 0: 3 (6.0)

| | | | | | | | | | | | Note\_Staccate > 1

| | | | | | | | | | | | | Nota\_RE# <= 0

| | | | | | | | | | | | | | Intervallo\_3uo <= 2

| | | | | | | | | | | | | | | Intervallo\_1up <= 7

| | | | | | | | | | | | | | | | Intervallo\_12 <= 2: 1 (15.0)

| | | | | | | | | | | | | | | | Intervallo\_12 > 2: 3 (3.0/1.0)

| | | | | | | | | | | | | | | Intervallo\_1up > 7: 3 (2.0)

| | | | | | | | | | | | | | Intervallo\_3uo > 2: 3 (4.0)

| | | | | | | | | | | | | Nota\_RE# > 0: 3 (19.0)

| | | | | | | | | | | Intervallo\_7arm > 0

| | | | | | | | | | | | Intervallo\_4arm <= 0: 1 (5.0)

| | | | | | | | | | | | Intervallo\_4arm > 0: 3 (2.0)

| | | | | | | | Tonalità > 2: 3 (268.0)

| | | | | | | Intervallo\_2arm > 0

| | | | | | | | Pause <= 18

| | | | | | | | | Intervallo\_7up <= 5

| | | | | | | | | | Nota\_LA# <= 0

| | | | | | | | | | | Intervallo\_12 <= 2

| | | | | | | | | | | | Intervallo\_3dn <= 0

| | | | | | | | | | | | | Intervallo\_1up <= 0: 3 (3.0)

| | | | | | | | | | | | | Intervallo\_1up > 0: 1 (5.0)

| | | | | | | | | | | | Intervallo\_3dn > 0: 3 (13.0)

| | | | | | | | | | | Intervallo\_12 > 2: 1 (2.0)

| | | | | | | | | | Nota\_LA# > 0: 3 (35.0)

| | | | | | | | | Intervallo\_7up > 5: 1 (3.0)

| | | | | | | | Pause > 18: 1 (20.0/1.0)

| | | | | Intervallo\_9dn > 5

| | | | | | Intervallo\_3dn <= 7

| | | | | | | Intervallo\_7arm <= 1

| | | | | | | | Intervallo\_2dn <= 2: 1 (20.0)

| | | | | | | | Intervallo\_2dn > 2

| | | | | | | | | Nota\_MI <= 6: 3 (2.0)

| | | | | | | | | Nota\_MI > 6: 1 (4.0)

| | | | | | | Intervallo\_7arm > 1: 3 (3.0)

| | | | | | Intervallo\_3dn > 7: 3 (6.0)

| | | | Intervallo\_9arm > 3

| | | | | Intervallo\_12 <= 4

| | | | | | Nota\_SOL# <= 6

| | | | | | | Intervallo\_11up <= 1

| | | | | | | | Intervallo\_3dn <= 1

| | | | | | | | | Nota\_RE <= 2: 1 (10.0)

| | | | | | | | | Nota\_RE > 2

| | | | | | | | | | Nota\_SOL <= 1: 1 (3.0)

| | | | | | | | | | Nota\_SOL > 1

| | | | | | | | | | | Nota\_LA# <= 7: 3 (12.0)

| | | | | | | | | | | Nota\_LA# > 7: 1 (3.0)

| | | | | | | | Intervallo\_3dn > 1

| | | | | | | | | Intervallo\_8dn <= 1: 3 (32.0/1.0)

| | | | | | | | | Intervallo\_8dn > 1

| | | | | | | | | | Nota\_RE# <= 0: 3 (2.0)

| | | | | | | | | | Nota\_RE# > 0: 1 (2.0)

| | | | | | | Intervallo\_11up > 1: 1 (3.0)

| | | | | | Nota\_SOL# > 6: 1 (10.0)

| | | | | Intervallo\_12 > 4: 1 (14.0)

| | | Intervallo\_7up > 7

| | | | Intervallo\_3uo <= 7

| | | | | Nota\_FA <= 23

| | | | | | Intervallo\_1up <= 1

| | | | | | | Intervallo\_3uo <= 4: 1 (43.0)

| | | | | | | Intervallo\_3uo > 4

| | | | | | | | Intervallo\_9up <= 3: 3 (2.0)

| | | | | | | | Intervallo\_9up > 3: 1 (7.0)

| | | | | | Intervallo\_1up > 1

| | | | | | | Intervallo\_9up <= 1: 3 (5.0)

| | | | | | | Intervallo\_9up > 1: 1 (7.0/1.0)

| | | | | Nota\_FA > 23: 3 (3.0)

| | | | Intervallo\_3uo > 7

| | | | | Modo <= -1: 1 (3.0)

| | | | | Modo > -1

| | | | | | Intervallo\_11dn <= 0: 3 (12.0)

| | | | | | Intervallo\_11dn > 0

| | | | | | | Intervallo\_10dn <= 1: 1 (3.0)

| | | | | | | Intervallo\_10dn > 1: 3 (3.0)

| | Intervallo\_5arm > 2

| | | Intervallo\_7up <= 3

| | | | Intervallo\_11dn <= 3

| | | | | Modo <= -1

| | | | | | Tonalità <= -3: 3 (14.0)

| | | | | | Tonalità > -3

| | | | | | | Tonalità <= -1

| | | | | | | | Tonalità <= -2: 1 (18.0)

| | | | | | | | Tonalità > -2: 3 (9.0)

| | | | | | | Tonalità > -1: 1 (27.0)

| | | | | Modo > -1

| | | | | | Intervallo\_6up <= 1

| | | | | | | Intervallo\_10arm <= 2

| | | | | | | | Intervallo\_5dn <= 0

| | | | | | | | | Nota\_SOL# <= 1: 1 (2.0)

| | | | | | | | | Nota\_SOL# > 1: 3 (5.0)

| | | | | | | | Intervallo\_5dn > 0: 3 (33.0)

| | | | | | | Intervallo\_10arm > 2: 1 (3.0/1.0)

| | | | | | Intervallo\_6up > 1

| | | | | | | Intervallo\_4arm <= 4: 1 (9.0)

| | | | | | | Intervallo\_4arm > 4

| | | | | | | | Intervallo\_9up <= 3: 3 (10.0/1.0)

| | | | | | | | Intervallo\_9up > 3: 1 (3.0)

| | | | Intervallo\_11dn > 3: 1 (10.0)

| | | Intervallo\_7up > 3

| | | | Intervallo\_1up <= 2

| | | | | Nota\_DO# <= 1

| | | | | | Intervallo\_6arm <= 0

| | | | | | | Intervallo\_3uo <= 4: 1 (8.0)

| | | | | | | Intervallo\_3uo > 4: 3 (7.0/1.0)

| | | | | | Intervallo\_6arm > 0: 1 (35.0/1.0)

| | | | | Nota\_DO# > 1: 1 (69.0)

| | | | Intervallo\_1up > 2

| | | | | Nota\_LA <= 2: 1 (7.0/1.0)

| | | | | Nota\_LA > 2: 3 (4.0)

| Tonalità > 3: 1 (377.0)

Number of Leaves : 124

Size of the tree : 247

Time taken to build model: 0.48 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3784 93.3629 %

Incorrectly Classified Instances 269 6.6371 %

Kappa statistic 0.867

Mean absolute error 0.0462

Root mean squared error 0.2027

Relative absolute error 13.8927 %

Root relative squared error 49.7295 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,941 0,073 0,921 0,941 0,931 0,867 0,944 0,926 1

? 0,000 ? ? ? ? ? ? 2

0,927 0,059 0,946 0,927 0,936 0,867 0,944 0,922 3

Weighted Avg. 0,934 0,066 0,934 0,934 0,934 0,867 0,944 0,924

=== Confusion Matrix ===

a b c <-- classified as

1805 0 114 | a = 1

0 0 0 | b = 2

155 0 1979 | c = 3

=== Run information ===

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

Naive Bayes Classifier

Class

Attribute 1 2 3

(0.47) (0) (0.53)

===========================================

Tonalità

mean -1.3502 0 -0.717

std. dev. 3.7237 0.1667 2.0216

weight sum 1919 0 2134

precision 1 1 1

Modo

mean 0 0 0

std. dev. 0.3333 0.3333 0.3333

weight sum 1919 0 2134

precision 2 2 2

Nota\_DO

mean 5.3315 0 5.1756

std. dev. 6.9802 0.24 6.0935

weight sum 1919 0 2134

precision 1.44 1.44 1.44

Nota\_DO#

mean 6.4492 0 2.2612

std. dev. 7.1405 0.3111 4.3185

weight sum 1919 0 2134

precision 1.8667 1.8667 1.8667

Nota\_RE

mean 3.6713 0 6.2109

std. dev. 5.8354 0.383 6.8986

weight sum 1919 0 2134

precision 2.2979 2.2979 2.2979

Nota\_RE#

mean 6.2042 0 3.1

std. dev. 7.624 0.24 5.0873

weight sum 1919 0 2134

precision 1.44 1.44 1.44

Nota\_MI

mean 4.2783 0 4.2923

std. dev. 5.8198 0.2311 5.8526

weight sum 1919 0 2134

precision 1.3864 1.3864 1.3864

Nota\_FA

mean 5.743 0 5.109

std. dev. 6.7974 0.27 6.7313

weight sum 1919 0 2134

precision 1.62 1.62 1.62

Nota\_FA#

mean 5.4066 0 2.3063

std. dev. 6.3881 0.2632 3.7183

weight sum 1919 0 2134

precision 1.5789 1.5789 1.5789

Nota\_SOL

mean 4.5597 0 5.7807

std. dev. 7.0004 0.3333 7.0105

weight sum 1919 0 2134

precision 2 2 2

Nota\_SOL#

mean 6.8706 0 1.9714

std. dev. 8.7713 0.3673 3.6727

weight sum 1919 0 2134

precision 2.2037 2.2037 2.2037

Nota\_LA

mean 3.9597 0 5.3377

std. dev. 5.6169 0.2391 6.6331

weight sum 1919 0 2134

precision 1.4348 1.4348 1.4348

Nota\_LA#

mean 5.6918 0 4.0903

std. dev. 6.6518 0.1746 5.8367

weight sum 1919 0 2134

precision 1.0476 1.0476 1.0476

Nota\_SI

mean 4.7604 0 3.4858

std. dev. 6.4822 0.422 6.1978

weight sum 1919 0 2134

precision 2.5319 2.5319 2.5319

Pause

mean 15.7037 0 8.2644

std. dev. 21.477 0.2883 7.971

weight sum 1919 0 2134

precision 1.7297 1.7297 1.7297

Note\_Staccate

mean 3.9057 0 2.9545

std. dev. 7.5213 0.2353 5.7231

weight sum 1919 0 2134

precision 1.4118 1.4118 1.4118

Intervallo\_0

mean 3.6212 0 4.1369

std. dev. 6.0568 0.2133 6.6892

weight sum 1919 0 2134

precision 1.28 1.28 1.28

Intervallo\_1up

mean 2.6963 0 3.8075

std. dev. 5.186 0.3864 5.9947

weight sum 1919 0 2134

precision 2.3182 2.3182 2.3182

Intervallo\_1dn

mean 3.5385 0 4.1307

std. dev. 5.1065 0.2937 5.2658

weight sum 1919 0 2134

precision 1.7619 1.7619 1.7619

Intervallo\_1arm

mean 0.0596 0 0.012

std. dev. 0.431 0.2381 0.2381

weight sum 1919 0 2134

precision 1.4286 1.4286 1.4286

Intervallo\_2up

mean 3.4176 0 4.7591

std. dev. 4.9319 0.2653 7.25

weight sum 1919 0 2134

precision 1.5918 1.5918 1.5918

Intervallo\_2dn

mean 4.6739 0 5.9435

std. dev. 5.9549 0.2882 7.7397

weight sum 1919 0 2134

precision 1.7292 1.7292 1.7292

Intervallo\_2arm

mean 0.8065 0 0.1117

std. dev. 2.3886 0.2879 0.5853

weight sum 1919 0 2134

precision 1.7273 1.7273 1.7273

Intervallo\_3uo

mean 4.6607 0 4.1929

std. dev. 5.6828 0.2093 5.0722

weight sum 1919 0 2134

precision 1.2558 1.2558 1.2558

Intervallo\_3dn

mean 2.2203 0 2.8535

std. dev. 3.3072 0.2448 3.9819

weight sum 1919 0 2134

precision 1.4688 1.4688 1.4688

Intervallo\_3arm

mean 2.6081 0 1.3411

std. dev. 4.8501 0.2571 2.9604

weight sum 1919 0 2134

precision 1.5429 1.5429 1.5429

Intervallo\_4up

mean 3.6906 0 2.5483

std. dev. 4.4379 0.2969 2.8935

weight sum 1919 0 2134

precision 1.7813 1.7813 1.7813

Intervallo\_4dn

mean 1.8453 0 1.701

std. dev. 2.6681 0.2391 2.3789

weight sum 1919 0 2134

precision 1.4348 1.4348 1.4348

Intervallo\_4arm

mean 2.4295 0 1.1439

std. dev. 4.3594 0.3276 2.2623

weight sum 1919 0 2134

precision 1.9655 1.9655 1.9655

Intervallo\_5up

mean 3.8714 0 1.8206

std. dev. 4.5231 0.2312 2.3372

weight sum 1919 0 2134

precision 1.3871 1.3871 1.3871

Intervallo\_5dn

mean 2.4059 0 1.8455

std. dev. 2.9802 0.2361 2.4015

weight sum 1919 0 2134

precision 1.4167 1.4167 1.4167

Intervallo\_5arm

mean 2.4616 0 0.3914

std. dev. 4.7059 0.2708 1.3479

weight sum 1919 0 2134

precision 1.625 1.625 1.625

Intervallo\_6up

mean 2.016 0 0.6719

std. dev. 3.1065 0.1944 1.4051

weight sum 1919 0 2134

precision 1.1667 1.1667 1.1667

Intervallo\_6dn

mean 1.068 0 0.6183

std. dev. 1.946 0.2018 1.4071

weight sum 1919 0 2134

precision 1.2105 1.2105 1.2105

Intervallo\_6arm

mean 1.5236 0 0.267

std. dev. 3.1502 0.1795 0.9124

weight sum 1919 0 2134

precision 1.0769 1.0769 1.0769

Intervallo\_7up

mean 3.4111 0 1.0735

std. dev. 4.4581 0.2135 1.6916

weight sum 1919 0 2134

precision 1.2813 1.2813 1.2813

Intervallo\_7dn

mean 2.3422 0 1.3494

std. dev. 3.1074 0.2681 1.9842

weight sum 1919 0 2134

precision 1.6087 1.6087 1.6087

Intervallo\_7arm

mean 2.0436 0 0.382

std. dev. 4.2754 0.2206 1.1475

weight sum 1919 0 2134

precision 1.3235 1.3235 1.3235

Intervallo\_8up

mean 1.6283 0 0.7588

std. dev. 2.5539 0.2667 1.4247

weight sum 1919 0 2134

precision 1.6 1.6 1.6

Intervallo\_8dn

mean 1.3103 0 0.6579

std. dev. 2.0002 0.1875 1.1976

weight sum 1919 0 2134

precision 1.125 1.125 1.125

Intervallo\_8arm

mean 1.3914 0 0.3863

std. dev. 2.8537 0.2133 1.2877

weight sum 1919 0 2134

precision 1.28 1.28 1.28

Intervallo\_9up

mean 1.9398 0 0.8488

std. dev. 2.9606 0.2681 1.6888

weight sum 1919 0 2134

precision 1.6087 1.6087 1.6087

Intervallo\_9dn

mean 1.7208 0 0.6826

std. dev. 2.631 0.1825 1.3831

weight sum 1919 0 2134

precision 1.0952 1.0952 1.0952

Intervallo\_9arm

mean 1.9715 0 0.4842

std. dev. 3.6613 0.2202 1.564

weight sum 1919 0 2134

precision 1.3214 1.3214 1.3214

Intervallo\_10up

mean 0.7217 0 0.3714

std. dev. 1.3389 0.1795 1.0231

weight sum 1919 0 2134

precision 1.0769 1.0769 1.0769

Intervallo\_10dn

mean 1.364 0 0.7258

std. dev. 2.0386 0.2667 1.633

weight sum 1919 0 2134

precision 1.6 1.6 1.6

Intervallo\_10arm

mean 0.8587 0 0.1879

std. dev. 2.1257 0.2843 0.7228

weight sum 1919 0 2134

precision 1.7059 1.7059 1.7059

Intervallo\_11up

mean 0.2339 0 0.1057

std. dev. 0.8142 0.1833 0.5652

weight sum 1919 0 2134

precision 1.1 1.1 1.1

Intervallo\_11dn

mean 0.9091 0 0.4939

std. dev. 1.8491 0.287 1.2412

weight sum 1919 0 2134

precision 1.7222 1.7222 1.7222

Intervallo\_11arm

mean 0.1744 0 0.0119

std. dev. 0.7973 0.2222 0.2222

weight sum 1919 0 2134

precision 1.3333 1.3333 1.3333

Intervallo\_12

mean 4.9675 0 1.5233

std. dev. 10.9146 0.4683 4.321

weight sum 1919 0 2134

precision 2.8095 2.8095 2.8095

Time taken to build model: 0.07 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 2906 71.7 %

Incorrectly Classified Instances 1147 28.3 %

Kappa statistic 0.4222

Mean absolute error 0.1886

Root mean squared error 0.4288

Relative absolute error 56.7147 %

Root relative squared error 105.1823 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,515 0,099 0,824 0,515 0,634 0,455 0,807 0,790 1

? 0,001 0,000 ? ? ? ? ? 2

0,899 0,485 0,673 0,899 0,770 0,452 0,806 0,802 3

Weighted Avg. 0,717 0,302 0,745 0,717 0,705 0,453 0,806 0,796

=== Confusion Matrix ===

a b c <-- classified as

988 0 931 | a = 1

0 0 0 | b = 2

211 5 1918 | c = 3

=== Run information ===

Scheme: weka.classifiers.functions.MLPClassifier -N 2 -R 0.01 -O 1.0E-6 -P 1 -E 1 -S 1 -L weka.classifiers.functions.loss.SquaredError -A weka.classifiers.functions.activation.ApproximateSigmoid

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

MLPClassifier with ridge value 0.01 and 2 hidden units (useCGD=false)

Output unit 0 weight for hidden unit 0: -4.581923695209448

Output unit 1 weight for hidden unit 0: -3.8619951691954064

Output unit 2 weight for hidden unit 0: 4.583477068637552

Hidden unit 0 weights:

0.24629869824717646 Tonalità

1.669843910232376 Modo

0.599583446308274 Nota\_DO

-6.230797325886744 Nota\_DO#

1.9548383843197596 Nota\_RE

-0.3998110082615691 Nota\_RE#

-1.1706365369802603 Nota\_MI

-0.2917255737855244 Nota\_FA

-3.293136595463704 Nota\_FA#

3.601904057454945 Nota\_SOL

-2.1210521805439124 Nota\_SOL#

1.5380904408780933 Nota\_LA

-0.6093309493731524 Nota\_LA#

-2.0947863386476664 Nota\_SI

-3.874626696084888 Pause

-0.20251941359887515 Note\_Staccate

1.6083926701263263 Intervallo\_0

0.1783080728038009 Intervallo\_1up

1.7673049286838551 Intervallo\_1dn

0.07148652332631746 Intervallo\_1arm

0.958505938731602 Intervallo\_2up

-1.3046011151971575 Intervallo\_2dn

-1.7956197909042046 Intervallo\_2arm

0.9198870851590618 Intervallo\_3uo

2.059420161076551 Intervallo\_3dn

2.4220610909488296 Intervallo\_3arm

0.1038463050355034 Intervallo\_4up

0.10082128564393943 Intervallo\_4dn

0.599754348286485 Intervallo\_4arm

-1.4649080055360182 Intervallo\_5up

0.06533211181847672 Intervallo\_5dn

-1.7047852096753358 Intervallo\_5arm

-0.08597725197033049 Intervallo\_6up

0.02132103160449888 Intervallo\_6dn

-2.4565016708886986 Intervallo\_6arm

-4.278610785542965 Intervallo\_7up

-0.207732502100494 Intervallo\_7dn

-0.5060731906940737 Intervallo\_7arm

-1.1237065273987645 Intervallo\_8up

0.3987490006021001 Intervallo\_8dn

-1.2191107559166126 Intervallo\_8arm

-0.2518008772721697 Intervallo\_9up

0.13028766199967887 Intervallo\_9dn

-0.12777767454235833 Intervallo\_9arm

-0.7015435998991856 Intervallo\_10up

0.7821901634134817 Intervallo\_10dn

-0.3665180449020291 Intervallo\_10arm

-1.4737785633211258 Intervallo\_11up

1.993657735409742 Intervallo\_11dn

0.3340034529474184 Intervallo\_11arm

-3.7966963521902892 Intervallo\_12

Hidden unit 0 bias: -4.111393605051351

Output unit 0 weight for hidden unit 1: -7.365004618437086

Output unit 1 weight for hidden unit 1: -4.063363161066558

Output unit 2 weight for hidden unit 1: 7.366048959245557

Hidden unit 1 weights:

-1.3301680386146093 Tonalità

6.016973032553957 Modo

-1.7737397559822434 Nota\_DO

-0.4011178036655476 Nota\_DO#

2.4586210922753473 Nota\_RE

-0.8321317084333579 Nota\_RE#

1.2052953038401095 Nota\_MI

2.16917065567112 Nota\_FA

-0.2536061310712879 Nota\_FA#

-2.4992970734659243 Nota\_SOL

-2.394341966583501 Nota\_SOL#

2.9303287407481466 Nota\_LA

1.314326525779481 Nota\_LA#

2.057660036512789 Nota\_SI

-3.5636904689827458 Pause

-1.6532605121125863 Note\_Staccate

1.3630083966112805 Intervallo\_0

-0.8042251914714802 Intervallo\_1up

-1.0802252021431962 Intervallo\_1dn

-0.1189254998953945 Intervallo\_1arm

1.2116264186322565 Intervallo\_2up

-0.35754695922229457 Intervallo\_2dn

-1.196764398129453 Intervallo\_2arm

3.3100886424169333 Intervallo\_3uo

1.523988082242266 Intervallo\_3dn

-2.188813753830415 Intervallo\_3arm

-1.3969413959924706 Intervallo\_4up

-0.8194368016051344 Intervallo\_4dn

2.48761107235737 Intervallo\_4arm

-1.6432255432148593 Intervallo\_5up

-0.5849572511109853 Intervallo\_5dn

-1.2316757546192802 Intervallo\_5arm

-0.40095520098005727 Intervallo\_6up

0.026775357672919855 Intervallo\_6dn

-2.3455835709969035 Intervallo\_6arm

-2.360526122383342 Intervallo\_7up

0.4225242052333665 Intervallo\_7dn

0.17473235704939646 Intervallo\_7arm

-0.6134462881535006 Intervallo\_8up

0.08470589175655248 Intervallo\_8dn

-0.1465023470891011 Intervallo\_8arm

-0.23766739768477538 Intervallo\_9up

-2.1304568905127304 Intervallo\_9dn

-0.17967523388776907 Intervallo\_9arm

-1.3688605417818982 Intervallo\_10up

0.07063568309264723 Intervallo\_10dn

1.27390511084346 Intervallo\_10arm

-0.3082405529086913 Intervallo\_11up

1.0947365678427359 Intervallo\_11dn

-0.24313993840538767 Intervallo\_11arm

-2.157449873023655 Intervallo\_12

Hidden unit 1 bias: -8.196247203150042

Output unit 0 bias: 3.28545276067575

Output unit 1 bias: -21.060267301208466

Output unit 2 bias: -3.285967646113551

Time taken to build model: 27.93 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3661 90.3282 %

Incorrectly Classified Instances 392 9.6718 %

Kappa statistic 0.8055

Mean absolute error 0.0895

Root mean squared error 0.2304

Relative absolute error 26.916 %

Root relative squared error 56.5054 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,872 0,068 0,920 0,872 0,895 0,806 0,942 0,944 1

? 0,000 ? ? ? ? ? ? 2

0,932 0,128 0,890 0,932 0,910 0,806 0,942 0,927 3

Weighted Avg. 0,903 0,100 0,904 0,903 0,903 0,806 0,942 0,935

=== Confusion Matrix ===

a b c <-- classified as

1673 0 246 | a = 1

0 0 0 | b = 2

146 0 1988 | c = 3

=== Run information ===

Scheme: weka.classifiers.rules.JRip -F 3 -N 2.0 -O 2 -S 1

Relation: Partitura

Instances: 4053

Attributes: 52

Tonalità

Modo

Nota\_DO

Nota\_DO#

Nota\_RE

Nota\_RE#

Nota\_MI

Nota\_FA

Nota\_FA#

Nota\_SOL

Nota\_SOL#

Nota\_LA

Nota\_LA#

Nota\_SI

Pause

Note\_Staccate

Intervallo\_0

Intervallo\_1up

Intervallo\_1dn

Intervallo\_1arm

Intervallo\_2up

Intervallo\_2dn

Intervallo\_2arm

Intervallo\_3uo

Intervallo\_3dn

Intervallo\_3arm

Intervallo\_4up

Intervallo\_4dn

Intervallo\_4arm

Intervallo\_5up

Intervallo\_5dn

Intervallo\_5arm

Intervallo\_6up

Intervallo\_6dn

Intervallo\_6arm

Intervallo\_7up

Intervallo\_7dn

Intervallo\_7arm

Intervallo\_8up

Intervallo\_8dn

Intervallo\_8arm

Intervallo\_9up

Intervallo\_9dn

Intervallo\_9arm

Intervallo\_10up

Intervallo\_10dn

Intervallo\_10arm

Intervallo\_11up

Intervallo\_11dn

Intervallo\_11arm

Intervallo\_12

Autore

Test mode: 10-fold cross-validation

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

JRIP rules:

===========

(Tonalità <= -4) => Autore=1 (878.0/0.0)

(Tonalità >= 4) => Autore=1 (377.0/0.0)

(Modo <= -1) and (Tonalità >= 0) and (Tonalità <= 2) => Autore=1 (202.0/0.0)

(Intervallo\_7up >= 5) and (Intervallo\_5arm >= 2) => Autore=1 (111.0/9.0)

(Pause >= 14) and (Intervallo\_9arm >= 3) => Autore=1 (59.0/12.0)

(Intervallo\_1up <= 0) and (Pause <= 3) and (Nota\_SOL# >= 9) => Autore=1 (21.0/1.0)

(Nota\_MI <= 8) and (Nota\_DO# >= 8) and (Pause >= 11) => Autore=1 (52.0/11.0)

(Intervallo\_9up >= 1) and (Intervallo\_3dn <= 2) and (Intervallo\_6arm >= 1) and (Intervallo\_4dn <= 0) => Autore=1 (29.0/7.0)

(Intervallo\_7dn >= 5) and (Intervallo\_3uo <= 1) and (Intervallo\_0 <= 1) and (Intervallo\_1up <= 4) => Autore=1 (29.0/1.0)

(Intervallo\_9up >= 3) and (Intervallo\_3dn <= 2) and (Intervallo\_11dn <= 0) and (Intervallo\_8up >= 3) => Autore=1 (17.0/3.0)

(Pause >= 11) and (Intervallo\_3uo <= 3) and (Nota\_MI <= 2) and (Intervallo\_0 >= 6) and (Nota\_FA <= 4) => Autore=1 (16.0/2.0)

(Nota\_SOL# >= 7) and (Intervallo\_10up >= 2) and (Note\_Staccate >= 1) => Autore=1 (15.0/4.0)

(Pause >= 11) and (Nota\_MI <= 2) and (Intervallo\_3uo <= 3) and (Intervallo\_9up >= 1) and (Intervallo\_7up <= 1) => Autore=1 (16.0/4.0)

(Modo <= -1) and (Tonalità >= -2) and (Tonalità <= -2) and (Intervallo\_5arm >= 1) and (Pause >= 12) => Autore=1 (10.0/0.0)

(Intervallo\_9dn >= 2) and (Intervallo\_1up <= 2) and (Nota\_FA <= 4) and (Intervallo\_4dn <= 1) and (Nota\_SOL >= 3) and (Intervallo\_3uo <= 9) => Autore=1 (19.0/3.0)

=> Autore=3 (2202.0/125.0)

Number of Rules : 16

Time taken to build model: 1.5 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 3770 93.0175 %

Incorrectly Classified Instances 283 6.9825 %

Kappa statistic 0.8597

Mean absolute error 0.0631

Root mean squared error 0.2032

Relative absolute error 18.9728 %

Root relative squared error 49.837 %

Total Number of Instances 4053

=== Detailed Accuracy By Class ===

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

0,905 0,047 0,946 0,905 0,925 0,860 0,951 0,960 1

? 0,000 ? ? ? ? ? ? 2

0,953 0,095 0,917 0,953 0,935 0,860 0,951 0,926 3

Weighted Avg. 0,930 0,072 0,931 0,930 0,930 0,860 0,951 0,942

=== Confusion Matrix ===

a b c <-- classified as

1736 0 183 | a = 1

0 0 0 | b = 2

100 0 2034 | c = 3