=== Run information ===

**CROSS VALIDATION**

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: Datos\_Inv\_2013-2014 (1)

Instances: 1499

Attributes: 18

Cod\_Sexo

EstCivil

Carrera

Edad

ALG\_GEO\_ANALITICA\_I

ALG\_GEO\_ANALITICA\_II

ANALISIS\_MAT\_I

ANALISIS\_MAT\_II

COMPUTACION\_NIV\_I

ELEMENTOS\_PROG\_I

MAT\_DISCRETA

QUIMICA\_GRAL

TECN\_ING\_SOC

SIST\_REP

INGLES\_TECN\_I

FISICA\_I

TICs

Situacion

Test mode: 10-fold cross-validation

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

Naive Bayes Classifier

Class

Attribute NO\_ABANDONO ABANDONO

(0.85) (0.15)

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

Cod\_Sexo

mean 1.179 1.1688

std. dev. 0.3834 0.3746

weight sum 1268 231

precision 1 1

EstCivil

mean 1.0205 1.0693

std. dev. 0.2272 0.5134

weight sum 1268 231

precision 1 1

Carrera

mean 202.0047 202.1905

std. dev. 2.7337 2.8646

weight sum 1268 231

precision 2 2

Edad

mean 21.1533 22.7333

std. dev. 4.1748 6.3843

weight sum 1268 231

precision 2.2 2.2

ALG\_GEO\_ANALITICA\_I

[Cursada Ausente] 337.0 77.0

[Cursada Reprobada] 108.0 16.0

[No\_Cursada] 255.0 131.0

[Cursada Promocionada] 326.0 3.0

[Cursada Aprobada] 159.0 5.0

[Final Ausente] 24.0 3.0

[Final Reprobada] 24.0 3.0

[Final Aprobada] 43.0 1.0

[total] 1276.0 239.0

ALG\_GEO\_ANALITICA\_II

[No\_Cursada] 887.0 231.0

[Cursada Ausente] 114.0 2.0

[Cursada Promocionada] 150.0 1.0

[Cursada Reprobada] 31.0 1.0

[Cursada Aprobada] 58.0 1.0

[Final Aprobada] 25.0 1.0

[Final Reprobada] 6.0 1.0

[Final Ausente] 5.0 1.0

[total] 1276.0 239.0

ANALISIS\_MAT\_I

[No\_Cursada] 348.0 157.0

[Cursada Ausente] 514.0 73.0

[Cursada Promocionada] 186.0 1.0

[Cursada Reprobada] 100.0 3.0

[Cursada Aprobada] 71.0 1.0

[Final Aprobada] 29.0 1.0

[Final Reprobada] 16.0 1.0

[Final Ausente] 12.0 2.0

[total] 1276.0 239.0

ANALISIS\_MAT\_II

[No\_Cursada] 1046.0 232.0

[Cursada Promocionada] 119.0 1.0

[Cursada Aprobada] 35.0 1.0

[Cursada Ausente] 46.0 1.0

[Final Ausente] 5.0 1.0

[Final Aprobada] 22.0 1.0

[Final Reprobada] 2.0 1.0

[total] 1275.0 238.0

COMPUTACION\_NIV\_I

[Cursada Promocionada] 705.0 12.0

[No\_Cursada] 337.0 180.0

[Cursada Ausente] 164.0 35.0

[Final Aprobada] 5.0 1.0

[Final Ausente] 4.0 2.0

[Cursada Reprobada] 54.0 6.0

[Final Reprobada] 6.0 2.0

[total] 1275.0 238.0

ELEMENTOS\_PROG\_I

[No\_Cursada] 163.0 118.0

[Cursada Promocionada] 464.0 8.0

[Cursada Ausente] 484.0 99.0

[Cursada Reprobada] 78.0 9.0

[Final Ausente] 16.0 1.0

[Cursada Aprobada] 44.0 2.0

[Final Aprobada] 19.0 1.0

[Final Reprobada] 8.0 1.0

[total] 1276.0 239.0

MAT\_DISCRETA

[Cursada Ausente] 379.0 124.0

[No\_Cursada] 116.0 86.0

[Cursada Promocionada] 412.0 4.0

[Cursada Reprobada] 173.0 15.0

[Cursada Aprobada] 123.0 3.0

[Final Ausente] 26.0 2.0

[Final Reprobada] 12.0 3.0

[Final Aprobada] 35.0 2.0

[total] 1276.0 239.0

QUIMICA\_GRAL

[Cursada Ausente] 418.0 116.0

[Cursada Promocionada] 358.0 5.0

[No\_Cursada] 128.0 95.0

[Cursada Reprobada] 147.0 15.0

[Cursada Aprobada] 153.0 4.0

[Final Ausente] 24.0 2.0

[Final Reprobada] 27.0 1.0

[Final Aprobada] 21.0 1.0

[total] 1276.0 239.0

TECN\_ING\_SOC

[Cursada Promocionada] 622.0 13.0

[No\_Cursada] 129.0 122.0

[Cursada Ausente] 226.0 84.0

[Cursada Aprobada] 172.0 9.0

[Final Aprobada] 33.0 2.0

[Final Ausente] 34.0 3.0

[Cursada Reprobada] 46.0 5.0

[Final Reprobada] 14.0 1.0

[total] 1276.0 239.0

SIST\_REP

[Cursada Promocionada] 912.0 30.0

[No\_Cursada] 89.0 98.0

[Cursada Ausente] 232.0 104.0

[Cursada Aprobada] 29.0 2.0

[Final Aprobada] 5.0 1.0

[Final Ausente] 7.0 2.0

[total] 1274.0 237.0

INGLES\_TECN\_I

[No\_Cursada] 574.0 200.0

[Cursada Ausente] 180.0 23.0

[Cursada Promocionada] 447.0 8.0

[Final Ausente] 24.0 2.0

[Final Aprobada] 19.0 2.0

[Cursada Aprobada] 22.0 1.0

[Final Reprobada] 8.0 2.0

[Cursada Reprobada] 2.0 1.0

[total] 1276.0 239.0

FISICA\_I

[No\_Cursada] 1057.0 231.0

[Cursada Ausente] 68.0 1.0

[Cursada Promocionada] 102.0 1.0

[Cursada Aprobada] 22.0 2.0

[Final Ausente] 5.0 1.0

[Cursada Reprobada] 10.0 1.0

[Final Aprobada] 9.0 1.0

[Final Reprobada] 3.0 1.0

[total] 1276.0 239.0

TICs

[Cursada Reprobada] 71.0 9.0

[Cursada Promocionada] 514.0 15.0

[Cursada Ausente] 279.0 118.0

[No\_Cursada] 143.0 80.0

[Final Aprobada] 37.0 1.0

[Cursada Aprobada] 170.0 11.0

[Final Ausente] 39.0 4.0

[Final Reprobada] 23.0 1.0

[total] 1276.0 239.0

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 1308 87.2582 %

Incorrectly Classified Instances 191 12.7418 %

Kappa statistic 0.6055

K&B Relative Info Score 52018.9826 %

K&B Information Score 323.141 bits 0.2156 bits/instance

Class complexity | order 0 929.4092 bits 0.62 bits/instance

Class complexity | scheme 1719.2619 bits 1.1469 bits/instance

Complexity improvement (Sf) -789.8527 bits -0.5269 bits/instance

Mean absolute error 0.1331

Root mean squared error 0.3219

Relative absolute error 50.9821 %

Root relative squared error 89.1454 %

Total Number of Instances 1499

=== Detailed Accuracy By Class ===

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

0,871 0,121 0,975 0,871 0,920 0,631 0,946 0,990 NO\_ABANDONO

0,879 0,129 0,555 0,879 0,680 0,631 0,946 0,681 ABANDONO

Weighted Avg. 0,873 0,122 0,910 0,873 0,883 0,631 0,946 0,943

=== Confusion Matrix ===

a b <-- classified as

1105 163 | a = NO\_ABANDONO

28 203 | b = ABANDONO