=== Run information ===

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

Relation: PorPassFailTesting

Instances: 130

Attributes: 25

sex

age

address

famsize

Pstatus

Medu

Fedu

traveltime

studytime

failures

schoolsup

famsup

paid

activities

higher

internet

romantic

famrel

freetime

goout

Dalc

Walc

health

absences

G

Test mode: 10-fold cross-validation

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

J48 pruned tree

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failures <= 0

| schoolsup = no: Pass (103.0/17.0)

| schoolsup = yes

| | goout = average: Fail (2.0)

| | goout = very low: Pass (0.0)

| | goout = high: Pass (2.0/1.0)

| | goout = low: Pass (5.0)

| | goout = very high: Fail (2.0)

failures > 0

| paid = no: Fail (13.0/1.0)

| paid = yes: Pass (3.0/1.0)

Number of Leaves : 8

Size of the tree : 12

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 96 73.8462 %

Incorrectly Classified Instances 34 26.1538 %

Kappa statistic 0.2546

Mean absolute error 0.324

Root mean squared error 0.4575

Relative absolute error 81.8937 %

Root relative squared error 103.0438 %

Total Number of Instances 130

=== Detailed Accuracy By Class ===

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

0.884 0.657 0.785 0.884 0.832 0.264 0.617 0.780 Pass

0.343 0.116 0.522 0.343 0.414 0.264 0.617 0.406 Fail

Weighted Avg. 0.738 0.511 0.714 0.738 0.719 0.264 0.617 0.679

=== Confusion Matrix ===

a b <-- classified as

84 11 | a = Pass

23 12 | b = Fail