Weka Linear Regression, Test: 90% Split, Predicting Age-Adjusted Rate

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

Linear Regression Model

0.5532 \* invcommitment\_binarized=0 + -0.9838 \* danger\_binarized=0 + 1.3263 \* drugmisdemeanor\_binarized=0 + 1.1755 \* alctreatment\_binarized=0 + 2.4568 \* alcoholism\_binarized=1 + 1.2319 \* relinquishment\_binarized=0 + -5.0689 \* violenth\_binarized=0 + 4.7348 \* violentpartial\_binarized=0 + 3.2879 \* dealer\_binarized=0 + 1.1947 \* dealerh\_binarized=0 + -5.0592 \* recordsall\_binarized=0 + -2.3722 \* recordsallh\_binarized=0 + -2.7156 \* recordsdealer\_binarized=0 + 4.4663 \* recordsdealerh\_binarized=0 + 6.9955 \* reportall\_binarized=0 + -0.5381 \* reportdealer\_binarized=0 + -3.996  \* reportdealerh\_binarized=0 + **-16.8347 \* residential\_binarized=0** + **8.4295 \* theft\_binarized=0** + -0.6223 \* security\_binarized=0 + **29.5835 \* inspection\_binarized=0** + 5.5746 \* ammlicense\_binarized=0 + -1.605  \* permith\_binarized=0 + 1.3899 \* fingerprint\_binarized=0 + 2.0111 \* permitlaw\_binarized=0 + 3.9818 \* registration\_binarized=0 + 1.6458 \* registrationh\_binarized=0 + 5.0715 \* ammpermit\_binarized=0 + -0.6301 \* ammrestrict\_binarized=0 + 4.6837 \* age21handgunsale\_binarized=0 + -3.06   \* age18longgunsale\_binarized=0 + 3.9818 \* age21longgunsaled\_binarized=0 + 3.9817 \* age21longgunsale\_binarized=0 + -4.0579 \* age21handgunpossess\_binarized=0 + -1.091  \* age18longgunpossess\_binarized=0 + **-16.834  \* age21longgunpossess\_binarized=0** + -2.1424 \* amm18\_binarized=0 + 1.8075 \* universalh\_binarized=0 + 4.7397 \* universalpermit\_binarized=0 + -6.6337 \* universalpermith\_binarized=0 + 5.9911 \* backgroundpurge\_binarized=0 + 5.072  \* ammbackground\_binarized=0 + -2.2472 \* threedaylimit\_binarized=0 + **-10.3935 \* statechecks\_binarized=0** + **8.9425 \* statechecksh\_binarized=0** + **-15.0496 \* waiting\_binarized=0** + 3.4181 \* waitingh\_binarized=0 + -0.8825 \* assault\_binarized=0 + 4.4813 \* onefeature\_binarized=0 + -0.8825 \* assaultlist\_binarized=0 + 1.7415 \* assaultregister\_binarized=0 + 1.7725 \* assaulttransfer\_binarized=0 + -5.6485 \* magazine\_binarized=0 + -1.1825 \* tenroundlimit\_binarized=0 + -5.5742 \* magazinepreowned\_binarized=0 + 0.7296 \* onepermonth\_binarized=0 + **8.4289 \* traffickingbackground\_binarized=0** + 3.1218 \* traffickingprohibited\_binarized=0 + -1.8454 \* traffickingprohibitedh\_binarized=0 + **8.429  \* strawpurchase\_binarized=0** + 0.9105 \* microstamp\_binarized=0 + 2.9741 \* college\_binarized=1 + 2.7054 \* opencarryh\_binarized=0 + -4.9213 \* opencarryl\_binarized=0 + -0.5796 \* opencarrypermith\_binarized=0 + 2.7206 \* opencarrypermitl\_binarized=0 + -0.7941 \* permitconcealed\_binarized=0 + 0.6902 \* ccbackground\_binarized=1 + -0.9495 \* ccbackgroundnics\_binarized=0 + 1.6595 \* ccrenewbackground\_binarized=0 + -1.9626 \* ccrevoke\_binarized=1 + 0.3424 \* nosyg\_binarized=0 + -0.6238 \* lockp\_binarized=0 + **-16.834  \* locked\_binarized=0** + -2.1629 \* capliability\_binarized=0 + 2.2299 \* capaccess\_binarized=0 + 1.5688 \* capuses\_binarized=0 + -5.7621 \* capunloaded\_binarized=0 + **-12.3619 \* cap18\_binarized=0** + 2.567  \* cap16\_binarized=0 + 1.5688 \* cap14\_binarized=0 + 0.6206 \* junkgun\_binarized=0 + -6.2359 \* liability\_binarized=0 + 0.3025 \* immunity\_binarized=0 + 0.6593 \* preemption\_binarized=0 + 4.3209 \* preemptionnarrow\_binarized=0 + -3.1174 \* preemptionbroad\_binarized=0 + -0.7569 \* mcdvdating\_binarized=0 + 4.0682 \* mcdvsurrender\_binarized=0 + -4.9003 \* mcdvsurrendernoconditions\_binarized=0 + 1.1312 \* mcdvsurrenderdating\_binarized=0 + -1.1773 \* mcdvremovalallowed\_binarized=0 + 1.0679 \* incidentremoval\_binarized=0 + -1.0223 \* dvro\_binarized=0 + -0.6197 \* expartedating\_binarized=0 + -4.8574 \* dvrosurrender\_binarized=0 + 7.4033 \* dvrosurrendernoconditions\_binarized=0 + -0.4855 \* dvrosurrenderdating\_binarized=0 + 2.3026 \* expartesurrender\_binarized=0 + -3.1667 \* expartesurrendernoconditions\_binarized=0 + 1.4838 \* expartesurrenderdating\_binarized=0 + -1.079  \* dvroremoval\_binarized=0 + 0.6908 \* stalking\_binarized=0 + 10.8086

Time taken to build model: 0.32 seconds

=== Evaluation on test split ===

Time taken to test model on test split: 0 seconds

=== Summary ===

Correlation coefficient                  0.9296

Mean absolute error                      1.0068

Root mean squared error                  1.4561

Relative absolute error                 31.3632 %

Root relative squared error             36.8063 %

Total Number of Instances               90

10 Large weights (above 8 or less than -8), 22 Small weights (between 1 and -1)