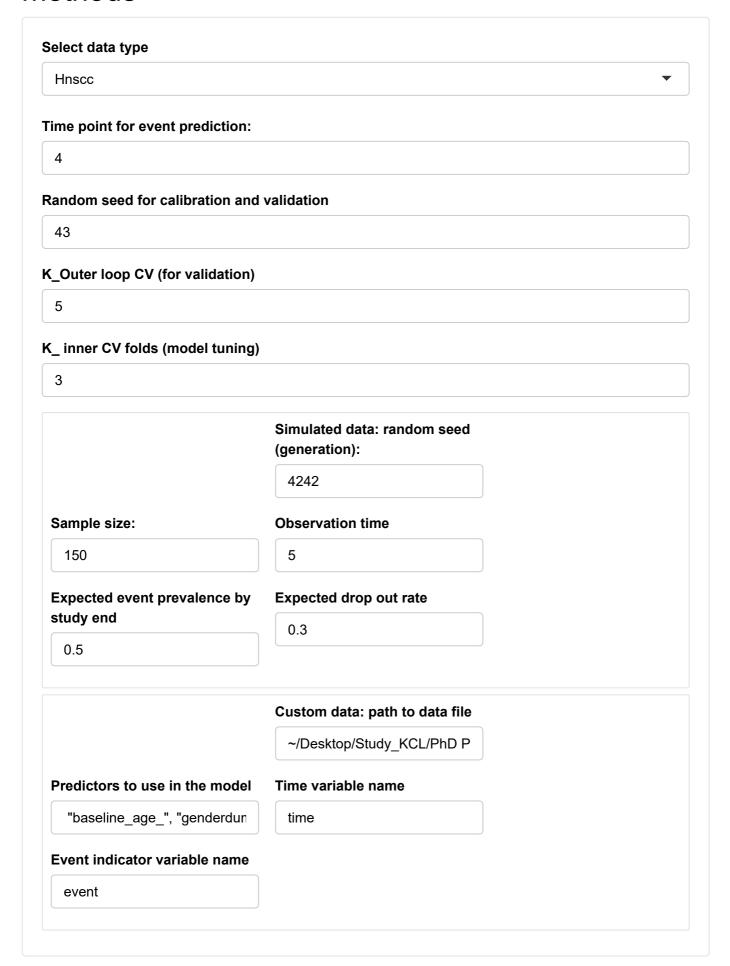
Simulated examples for the survival ensemble methods



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test.5

0.8861

Showing 1 to 5 of 5 entries

0.0715

0.2125

0.8816

1.7468

Previous

-0.0117

1

4

Next

SRF Sample statistics CoxPH Ens1: CoxPH->SRF Ens2: CoxPH in clusters Ens3: extended CoxPH Summary Conclusions Internally cross-validated results: **Show** 10 entries Search: AUCROC \$ BS 🛊 BS_scaled \$ C_score \$ Calib_slope \$ Calib_alpha T ‡ 0.71 0.1095 -0.0335 0.7097 0.7545 -0.0009 4 test train 0.9461 0.0687 0.3754 0.9249 2.9745 -0.0003 4 Showing 1 to 2 of 2 entries Previous 1 Next Internally cross-validated Test results for each CV fold: Show 10 ✓ entries Search: **AUCROC** \$ BS 🛊 BS_scaled \$ C_score \$ Calib_slope \$ Calib_alpha T 🛊 test.1 0.5826 0.1167 -0.4341 0.5843 0.1935 -0.0671 4 test.2 0.7381 0.1304 0.1161 0.7541 0.8297 0.0558 4 test.3 0.0895 -0.0633 0.6161 0.6896 0.6751 -0.0396 4 test.4 0.6535 0.1393 0.0014 0.6533 0.3864 0.0579 4

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```
0%
                                               14%
                                               29%
  |========
                                               43%
  |-----
                                               57%
                                               71%
                                               86%
$test
      AUCROC
                   BS
                        BS scaled
1 4 0.5825863 0.11670088 -0.434076656 0.5843195
2 4 0.7381022 0.13043801 0.116129772 0.7541112
3 4 0.6895977 0.08951871 -0.063269916 0.6750742
4 4 0.6534935 0.13927717 0.001445078 0.6533115
5 4 0.8860530 0.07146151 0.212467813 0.8815612
 Calib_slope Calib_alpha test cv_n
   0.1935432 -0.06710218
 0.8297293 0.05584705 1
3 0.6161315 -0.03961375 1 3
4
  0.3864348 0.05787541 1 4
 1.7467566 -0.01166590 1 5
$train
                   BS BS_scaled C_score Calib_slope
 Т
      AUCROC
1 4 0.9805320 0.05480619 0.5317606 0.9564613 3.516517
2 4 0.9607155 0.06436830 0.3563793 0.9373364
                                          3.559308
3 4 0.9316559 0.07510530 0.3584907 0.9134112
                                          2.397352
4 4 0.9326939 0.06921912 0.3262703 0.9138563
                                          2.572772
5 4 0.9247811 0.08000463 0.3042103 0.9035897
                                          2.826558
   Calib_alpha test cv_n
1 -2.273377e-03 0
2 4.883290e-04
3 -6.746421e-04 0
                   3
4 7.556387e-05 0
                    4
5 6.343831e-04 0
$testaverage
                  AUCROC
                                  BS
                                        BS scaled
4.000000000 0.7099665478 0.1094792570 -0.0334607819
             Calib slope
                          Calib alpha
     C score
$trainaverage
                  AUCROC
                                  BS
                                         BS_scaled
4.0000000000 0.9460757033 0.0687007052 0.3754222469
            Calib_slope Calib_alpha
     C_score
                                             test
```

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```
0.9249309878 2.9745015660 -0.0003499487 0.00000000000
$model list
$model_list[[1]]
$model_list[[1]]$beststats
   mtry nodesize nodedepth time
                                                 BS
                                  AUCROC
                       50 3.3 0.8203674 0.08827607
V2
    21
             15
   BS_scaled C_score Calib_alpha Calib_slope
V2 0.1101757 0.7509637 -0.01319374 0.7533519
$model_list[[1]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
                                                  BS
٧1
     10
              15
                        50 3.3 0.8131007 0.08769535
     10
                        50 3.3 0.8126556 0.08694113
V2
              20
V3
     10
              25
                        50 3.3 0.8118626 0.08643769
V4
     10
              30
                        50 3.3 0.8126215 0.08601591
V5
      10
              35
                        50 3.3 0.8102518 0.08583867
V11
     11
              15
                        50 3.3 0.8149546 0.08647083
V21
              15
                        50 3.3 0.8203674 0.08827607
      21
V31
             15
                        50 3.3 0.8104541 0.09143210
     36
V41
     54
              15
                        50 3.3 0.8090970 0.09124450
V51
     10
              15
                        50 3.3 0.8131007 0.08769535
     BS_scaled C_score Calib_alpha Calib_slope
V1 0.11602941 0.7424961 -0.009544008 0.8039529
V2 0.12363194 0.7435703 -0.008655802
                                      0.8378539
V3 0.12870658 0.7422749 -0.007062857 0.8629763
V4 0.13295815 0.7416114 -0.006063651 0.8934772
V5 0.13474471 0.7412006 -0.005920419 0.9345742
V11 0.12837253 0.7418009 -0.010727954 0.8168714
V21 0.11017572 0.7509637 -0.013193741 0.7533519
V31 0.07836287 0.7413902 -0.014998827 0.6670799
V41 0.08025385 0.7408215 -0.017103684
                                      0.6393121
V51 0.11602941 0.7424961 -0.009544008
                                      0.8039529
$model_list[[1]]$model
                        Sample size: 361
                    Number of deaths: 48
                     Number of trees: 500
           Forest terminal node size: 15
       Average no. of terminal nodes: 15.172
No. of variables tried at each split: 21
              Total no. of variables: 107
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                           Analysis: RSF
                              Family: surv
                     Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.06203216
   (OOB) Requested performance error: 0.25475453
$model list[[2]]
$model_list[[2]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
                                                 BS
```

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```
V5
              25
                        50 2.9 0.7570005 0.08202887
    10
    BS scaled C score Calib alpha Calib slope
V5 0.04512564 0.7032827 -0.006857878
                                      0.7356402
$model_list[[2]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
                                                  BS
٧1
      10
              15
                        50 2.9 0.7406581 0.08513219
V2
      10
              20
                        50 2.9 0.7559812 0.08261163
V3
     10
              25
                        50 2.9 0.7570005 0.08202887
V4
     10
              30
                        50 2.9 0.7508127 0.08237271
V5
                        50 2.9 0.7479396 0.08214145
      10
              35
V11
     11
             25
                        50 2.9 0.7511480 0.08363471
V21
     21
              25
                        50 2.9 0.7435998 0.08545408
              25
V31
     36
                        50 2.9 0.7457475 0.08692553
V41
     54
              25
                        50 2.9 0.7416239 0.08697794
V51
    10
              25
                        50 2.9 0.7570005 0.08202887
      BS scaled
                 C_score Calib_alpha Calib_slope
    0.009000752 0.6911688 -0.009886011
V1
                                         0.6032343
V2
    0.038341832 0.7049278 -0.008646927
                                         0.7011229
V3 0.045125638 0.7032827 -0.006857878
                                         0.7356402
٧4
    0.041123118 0.6976744 -0.005719604
                                        0.7524031
    0.043815058 0.6952815 -0.005204440
                                        0.7884184
V11 0.026432507 0.6999177 -0.005371366 0.6939480
V21 0.005253791 0.6904584 -0.008299573
                                         0.6168618
V31 -0.011874989 0.6955433 -0.011180077
                                         0.5536702
V41 -0.012485102 0.6899349 -0.010101583
                                         0.5099371
V51 0.045125638 0.7032827 -0.006857878
                                         0.7356402
$model_list[[2]]$model
                        Sample size: 361
                   Number of deaths: 40
                    Number of trees: 500
           Forest terminal node size: 25
      Average no. of terminal nodes: 10.356
No. of variables tried at each split: 10
              Total no. of variables: 107
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                           Analysis: RSF
                             Family: surv
                     Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.05472273
   (OOB) Requested performance error: 0.29785405
$model_list[[3]]
$model_list[[3]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
V2
                        50 2.9 0.7496691 0.09539907
    BS scaled C score Calib alpha Calib slope
V2 0.03706826 0.7044809 -0.009536267 0.6284023
$model_list[[3]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
                                                  BS
```

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٧4

V5

V11

10

10

11

30

35

35

```
٧1
                         50 2.9 0.7397643 0.09631209
      10
               15
V2
                         50 2.9 0.7411764 0.09570050
      10
               20
V3
      10
               25
                         50 2.9 0.7467761 0.09425049
V4
      10
               30
                         50 2.9 0.7484842 0.09396004
V5
      10
               35
                         50 2.9 0.7494832 0.09372072
V11
                         50 2.9 0.7464931 0.09435143
      11
              35
V21
                         50 2.9 0.7496691 0.09539907
      21
              35
V31
      36
              35
                         50 2.9 0.7398922 0.09826334
                         50 2.9 0.7365362 0.09971820
V41
      54
              35
V51
     10
               35
                         50 2.9 0.7494832 0.09372072
       BS_scaled
                   C_score Calib_alpha Calib_slope
V1
    0.027852434 0.7003471 -0.011425658
                                         0.5835916
V2
    0.034025694 0.7000000 -0.009168628
                                         0.6097645
    0.048661687 0.7042916 -0.008079083 0.6667808
V3
٧4
    0.051593369 0.7046071 -0.007673451
                                          0.6833091
V5
    0.054009017 0.7054591 -0.007200453
                                         0.7097917
V11 0.047642823 0.7036920 -0.007992866
                                         0.6878306
V21 0.037068258 0.7044809 -0.009536267
                                          0.6284023
V31 0.008157060 0.6981067 -0.010843819
                                          0.5447102
V41 -0.006527855 0.6954244 -0.015223275
                                          0.4757649
V51 0.054009017 0.7054591 -0.007200453
                                          0.7097917
$model_list[[3]]$model
                         Sample size: 361
                    Number of deaths: 48
                     Number of trees: 500
           Forest terminal node size: 35
       Average no. of terminal nodes: 11.588
No. of variables tried at each split: 21
              Total no. of variables: 107
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.06385849
   (OOB) Requested performance error: 0.28926611
$model_list[[4]]
$model_list[[4]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
٧1
    11
              35
                        50 3.1 0.7765149 0.08176475
               C score Calib alpha Calib slope
    BS scaled
V1 0.07532043 0.7325513 -0.002115992
$model_list[[4]]$allstats
   mtry nodesize nodedepth time
                                    AUCROC
٧1
     10
               15
                         50 3.1 0.7572123 0.08343519
V2
      10
               20
                         50 3.1 0.7619155 0.08271453
               25
٧3
      10
                         50 3.1 0.7663508 0.08245395
```

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50 3.1 0.7740229 0.08160910

50 3.1 0.7757574 0.08125640

50 3.1 0.7765149 0.08176475

٧1

```
V21
               35
                         50 3.1 0.7744627 0.08255439
      21
                         50 3.1 0.7653990 0.08389747
V31
      36
               35
V41
      54
               35
                         50 3.1 0.7650306 0.08529124
V51
      10
               35
                         50 3.1 0.7757574 0.08125640
     BS_scaled
                C_score Calib_alpha Calib_slope
V1 0.05642946 0.7198680 -0.007203848
                                        0.6582768
V2 0.06457937 0.7231672 -0.005011774
                                      0.7257167
V3 0.06752633 0.7280059 -0.003904156
                                      0.7646603
V4 0.07708073 0.7319648 -0.002747276
                                      0.8259253
V5 0.08106940 0.7337243 -0.002098028 0.8684682
V11 0.07532043 0.7325513 -0.002115992
                                      0.8186295
V21 0.06639045 0.7362170 -0.003674148 0.7286030
V31 0.05120149 0.7299120 -0.005651153
                                      0.6366882
V41 0.03543929 0.7331378 -0.008872823
                                      0.6029357
V51 0.08106940 0.7337243 -0.002098028
                                        0.8684682
$model_list[[4]]$model
                         Sample size: 360
                    Number of deaths: 41
                     Number of trees: 500
           Forest terminal node size: 35
       Average no. of terminal nodes: 9.474
No. of variables tried at each split: 11
              Total no. of variables: 107
       Resampling used to grow trees: swor
    Resample size used to grow trees: 228
                            Analysis: RSF
                              Family: surv
                      Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.05443377
   (OOB) Requested performance error: 0.27259732
$model_list[[5]]
$model_list[[5]]$beststats
   mtry nodesize nodedepth time
                                   AUCROC
                                                  BS
V5
    10
              30
                        50 2.9 0.7193498 0.09494391
    BS_scaled C_score Calib_alpha Calib_slope
V5 0.02019391 0.6727564 -0.003485748
                                       0.6662571
$model_list[[5]]$allstats
    mtry nodesize nodedepth time
                                                   BS
                                    AUCROC
٧1
      10
               15
                         50 2.9 0.7091161 0.09639563
V2
      10
               20
                         50 2.9 0.7162945 0.09594669
V3
      10
               25
                         50 2.9 0.7175232 0.09569405
٧4
      10
               30
                         50 2.9 0.7193498 0.09494391
V5
      10
               35
                         50 2.9 0.7159702 0.09504237
V11
      11
               30
                         50 2.9 0.7100608 0.09653943
V21
      21
               30
                         50 2.9 0.7075015 0.09910962
V31
      36
               30
                         50 2.9 0.7047155 0.09951178
               30
V41
                         50 2.9 0.6961444 0.10294911
      54
                         50 2.9 0.7193498 0.09494391
V51
               30
                   C_score Calib_alpha Calib_slope
       BS scaled
```

0.005212348 0.6635897 -0.007947007

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0.5555321

```
V2
   0.009845394 0.6682051 -0.006171300
                                        0.6038977
V3 0.012452547 0.6698718 -0.004539917
                                        0.6276066
V4 0.020193907 0.6727564 -0.003485748
                                        0.6662571
V5 0.019177808 0.6687821 -0.003123228
                                        0.6777664
V11 0.003728345 0.6665385 -0.006383028
                                        0.6109346
V21 -0.022795635 0.6651282 -0.008189335
                                        0.5254106
V31 -0.026945802 0.6634615 -0.009160834
                                        0.4920373
V41 -0.062418514 0.6575962 -0.012686798
                                        0.3869847
V51 0.020193907 0.6727564 -0.003485748
                                        0.6662571
```

\$model_list[[5]]\$model

Sample size: 361
Number of deaths: 47
Number of trees: 500
Forest terminal node size: 30

Average no. of terminal nodes: 11.018
No. of variables tried at each split: 10

Total no. of variables: 107
Resampling used to grow trees: swor
Resample size used to grow trees: 228

Analysis: RSF Family: surv

Splitting rule: logrank *random*

Number of random split points: 50

(OOB) CRPS: 0.06494129

(OOB) Requested performance error: 0.32360105

\$time

Time difference of 11.05891 secs

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