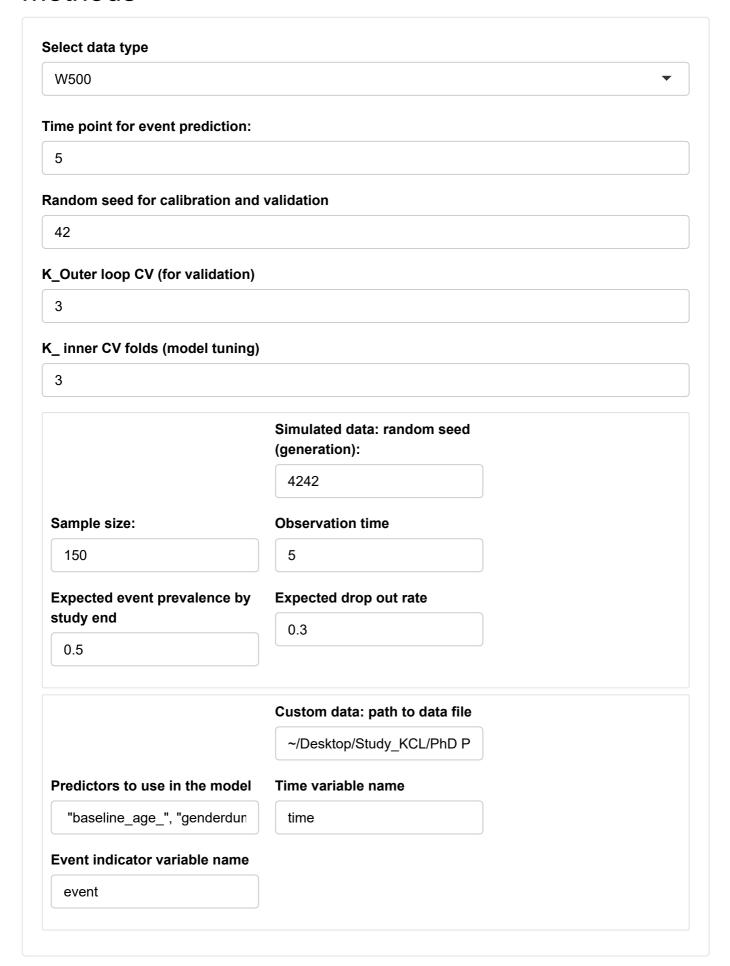
Simulated examples for the survival ensemble methods



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SRF CoxPH Ens1: CoxPH->SRF Ens2: CoxPH in clusters Sample statistics Ens3: extended CoxPH Summary Conclusions Internally cross-validated results: **Show** 10 entries Search: **T** 🛊 **AUCROC** \$ BS 🛊 BS_scaled \$ C_score \$ Calib_slope \$ Calib_alpha 5 test 0.8118 0.2244 0.2053 0.7758 1.561 0.1179 0.8431 2.7438 5 train 0.9303 0.1529 0.4636 0.0946 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	0.8573	0.2768	0.0586	0.8024	1.6515	-0.0191	5
test.2	0.7968	0.1946	0.3014	0.7865	1.4133	0.156	5
test.3	0.7812	0.2017	0.256	0.7385	1.6183	0.2167	5

Showing 1 to 3 of 3 entries Previous Next

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```
$test
 Т
      AUCROC
                    BS BS_scaled
                                   C_score Calib_slope
1 5 0.8572986 0.2768052 0.05855204 0.8024435
                                              1.651453
2 5 0.7968453 0.1946376 0.30135140 0.7864746
                                              1.413345
3 5 0.7812443 0.2016586 0.25603246 0.7384580
                                              1.618265
 Calib_alpha test cv_n
1 -0.01911689
2 0.15597670
3 0.21673321 1
                     3
$train
 Т
      AUCROC
                    BS BS_scaled C_score Calib_slope
1 5 0.9205838 0.1550118 0.4659974 0.8344509
2 5 0.9400630 0.1509249 0.4660473 0.8411095
                                             2.917718
3 5 0.9303293 0.1526155 0.4586321 0.8537097
                                             2.821934
 Calib_alpha test cv_n
1 0.08418908
2 0.09997626
                     2
                     3
3 0.09977442
                0
$testaverage
         Т
                AUCROC
                                BS
                                     BS scaled
                                     0.2053120
 5.0000000
            0.8117961
                         0.2243671
   C_score Calib_slope Calib_alpha
                                         test
 0.7757921 1.5610209
                                     1.0000000
                         0.1178643
$trainaverage
         Τ
                AUCROC
                                BS
                                     BS_scaled
 5.00000000 0.93032537 0.15285076 0.46355895
   C_score Calib_slope Calib_alpha
                                          test
 0.84309002 2.74379960 0.09464658 0.00000000
$model list
$model_list[[1]]
$model_list[[1]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
V2
     5
             15
                       50 3.3 0.8072266 0.1832543
   BS_scaled C_score Calib_alpha Calib_slope
V2 0.2606083 0.7552973 0.06757538
                                     1.218337
$model_list[[1]]$allstats
   mtry nodesize nodedepth time
                                   AUCROC
٧1
      4
              15
                        50 3.3 0.8043637 0.1852161
V2
      4
              20
                        50 3.3 0.8024537 0.1864733
V3
      4
              25
                        50 3.3 0.7999627 0.1882209
۷4
      4
              30
                        50 3.3 0.7990136 0.1897830
              15
                        50 3.3 0.7904369 0.1909523
V11
      3
V21
      5
              15
                        50 3.3 0.8072266 0.1832543
      7
V31
              15
                        50 3.3 0.8028894 0.1846949
V41
              15
                        50 3.3 0.8014589 0.1843634
     10
V5
              15
                        50 3.3 0.7960631 0.1863017
     15
   BS_scaled C_score Calib_alpha Calib_slope
V1 0.2526928 0.7516316 0.06788791
                                     1.3262666
V2 0.2476201 0.7506482 0.07081597
                                     1.4103051
V3 0.2405689 0.7487707 0.07485750
                                     1.4865160
```

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```
V4 0.2342663 0.7476382 0.07708498
                                     1.5852500
V11 0.2295486 0.7425123 0.07437630
                                     1.4660559
V21 0.2606083 0.7552973 0.06757538
                                     1.2183371
V31 0.2547956 0.7486813 0.06716325
                                     1.0347783
V41 0.2561334 0.7490091 0.06428620
                                     0.9451951
V5 0.2483127 0.7450752 0.06505799
                                     0.8204357
$model_list[[1]]$model
                        Sample size: 333
                   Number of deaths: 148
                     Number of trees: 500
           Forest terminal node size: 15
      Average no. of terminal nodes: 17.486
No. of variables tried at each split: 5
             Total no. of variables: 16
       Resampling used to grow trees: swor
    Resample size used to grow trees: 210
                           Analysis: RSF
                             Family: surv
                     Splitting rule: logrank *random*
       Number of random split points: 50
                          (OOB) CRPS: 0.17140951
   (OOB) Requested performance error: 0.25213383
$model_list[[2]]
$model_list[[2]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
٧1
                       50 2.9 0.8376261 0.1763126
   BS_scaled C_score Calib_alpha Calib_slope
V1 0.3022627 0.767478 0.03303304
                                  1.597998
$model_list[[2]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
                                                 BS
                        50 2.9 0.8271109 0.1791440
۷1
              15
                        50 2.9 0.8238877 0.1809529
V2
       4
              20
V3
      4
              25
                        50 2.9 0.8260776 0.1817950
٧4
              30
                        50 2.9 0.8236170 0.1836310
V11
      3
              15
                        50 2.9 0.8376261 0.1763126
                        50 2.9 0.8232165 0.1796748
V21
    5
             15
      7
V31
              15
                        50 2.9 0.8121258 0.1842722
V41
     10
              15
                        50 2.9 0.8085880 0.1869265
                        50 2.9 0.7987713 0.1912794
V5
     15
              15
    BS_scaled C_score Calib_alpha Calib_slope
V1 0.2910576 0.7626161 0.03242852
                                     1.3665010
V2 0.2838992 0.7613566 0.03309362
                                     1.4272236
V3 0.2805664 0.7627039 0.03293742
                                     1.5170738
V4 0.2733009 0.7602730 0.03490725
                                     1.5888450
V11 0.3022627 0.7674780 0.03303304
                                     1.5979983
V21 0.2889569 0.7569048 0.02920876
                                     1.1572810
V31 0.2707635 0.7552939 0.02649698
                                     0.9807735
V41 0.2602593 0.7508420 0.02471518
                                     0.8675883
V5 0.2430333 0.7450136 0.02680274
                                     0.7782084
$model_list[[2]]$model
```

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```
Sample size: 334
                   Number of deaths: 146
                     Number of trees: 500
           Forest terminal node size: 15
       Average no. of terminal nodes: 17.162
No. of variables tried at each split: 3
              Total no. of variables: 16
       Resampling used to grow trees: swor
    Resample size used to grow trees: 211
                           Analysis: RSF
                             Family: surv
                     Splitting rule: logrank *random*
       Number of random split points: 50
                          (00B) CRPS: 0.16288161
   (OOB) Requested performance error: 0.23978114
$model_list[[3]]
$model_list[[3]]$beststats
   mtry nodesize nodedepth time
                                  AUCROC
٧1
                       50 2.2 0.8389289 0.1584375
             C_score Calib_alpha Calib_slope
   BS scaled
V1 0.3090792 0.7729138 0.03131237
$model_list[[3]]$allstats
    mtry nodesize nodedepth time
                                   AUCROC
٧1
              15
                        50 2.2 0.8382254 0.1567297
                        50 2.2 0.8364531 0.1584062
V2
              20
       4
V3
              25
                        50 2.2 0.8359051 0.1598277
       4
٧4
      4
              30
                        50 2.2 0.8356853 0.1619339
V11
      3
              15
                        50 2.2 0.8389289 0.1584375
V21 5
             15
                        50 2.2 0.8332823 0.1578670
      7
                        50 2.2 0.8303034 0.1584922
V31
              15
V41
     10
              15
                        50 2.2 0.8249527 0.1613719
V5
     15
              15
                        50 2.2 0.8139617 0.1660894
    BS_scaled C_score Calib_alpha Calib_slope
V1 0.3165265 0.7781583 0.02674631
                                     1.3814465
V2 0.3092154 0.7744254 0.03227084 1.4775225
V3 0.3030168 0.7743637 0.03260144
                                     1.5745756
V4 0.2938317 0.7736233 0.03369496
                                     1.6928002
V11 0.3090792 0.7729138 0.03131237
                                     1.5367342
V21 0.3115669 0.7753201 0.02729319 1.1999087
V31 0.3088404 0.7728829 0.02612858
                                     1.0730222
V41 0.2962824 0.7706617 0.02588402
                                     0.9265618
V5 0.2757103 0.7636588 0.02749783
                                     0.8310123
$model list[[3]]$model
                        Sample size: 333
                   Number of deaths: 136
                     Number of trees: 500
           Forest terminal node size: 15
       Average no. of terminal nodes: 16.588
No. of variables tried at each split: 3
              Total no. of variables: 16
       Resampling used to grow trees: swor
```

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Resample size used to grow trees: 210

Analysis: RSF Family: surv

Splitting rule: logrank *random*

Number of random split points: 50

(OOB) CRPS: 0.16090738

(OOB) Requested performance error: 0.2233705

\$time

Time difference of 7.471621 secs

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