Evaluate testing data (survival) - rfsrc $_{EVE\ W.}$

2019-09-17

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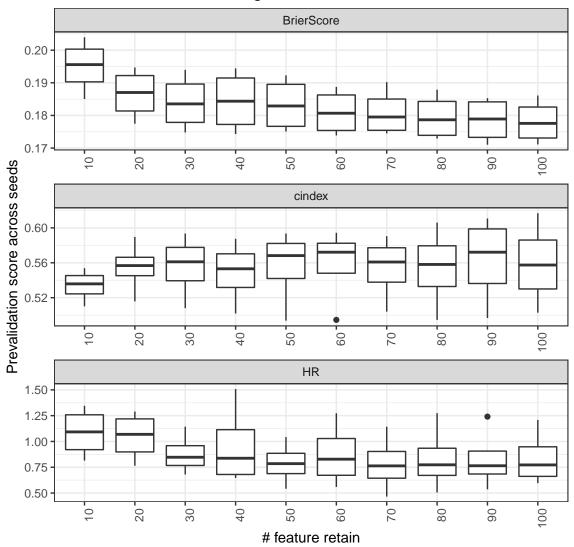
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Label: os_time	
## user input	
<pre>project_home <- "~/EVE/examples"</pre>	
<pre>project_name <- "rfsrc_outCV_test"</pre>	

0. Load Data

276 of samples were used
100 of full features
4 runs, each run contains 3 CVs.
run with rfeSRCC.r.

1. Scores

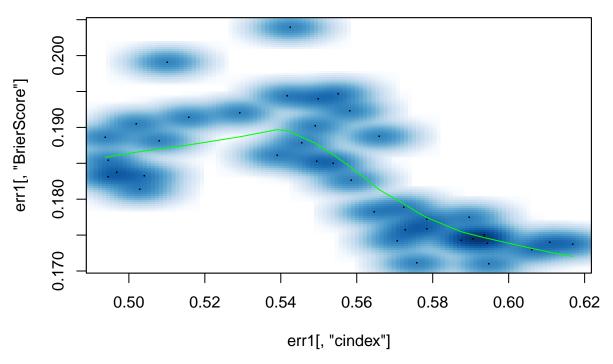
Prevalidation scores during RFE



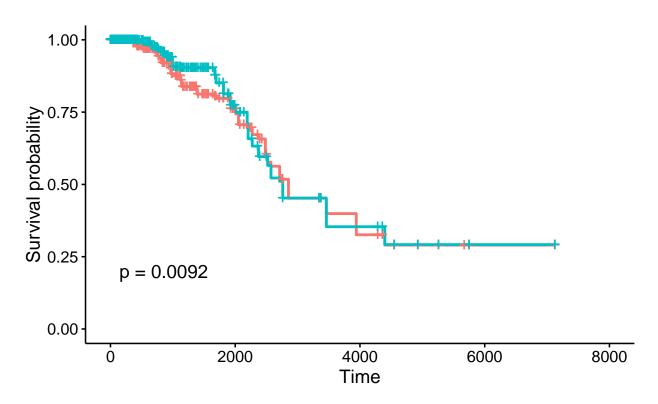
Note for the **HR plot**: A HR value (per seed) is calculated by comparing the survival time between 'long' and 'short' survivors. These two group is defined by splitting samples based on *median* predicted risk score; group_0 is predicted risk scores > median, which can be viewed as 'short survivors'. On the other hand, group_1 can be viewed as 'long survivors'. If the prediction is reasonable, the hazard ratio of group_1/group_0 should be < 1. The actual function used in calculating HR is coxph(Surv(time, status) ~ group.binary, df).

metrics	size.max	median.max	size.min	median.min
BrierScore	10	0.196	100	0.178
cindex	90	0.572	10	0.536
$_{ m HR}$	10	1.093	70	0.763

pearson corr: -0.64

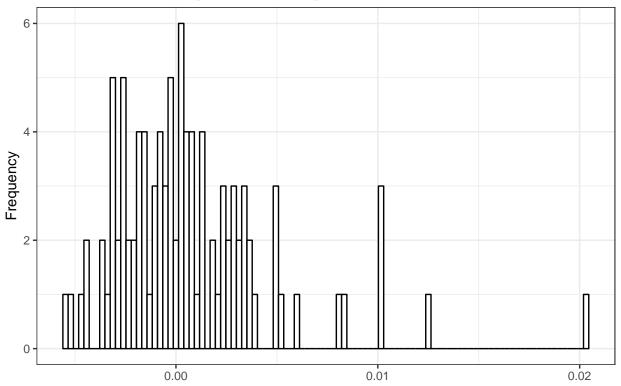


The following plot is to quickly see how well the prediction can separate long and short survivor. Strata $\stackrel{\longleftarrow}{-}$ pred.binary=0 $\stackrel{\longleftarrow}{-}$ pred.binary=1



2. Important Features

From 100 feature step based on vimp



Average (across seeds) of vimp (sum of all CVs per seed)

Feature importance by VIMP magnitude

