

Evaluate testing data (regression) - Lasso

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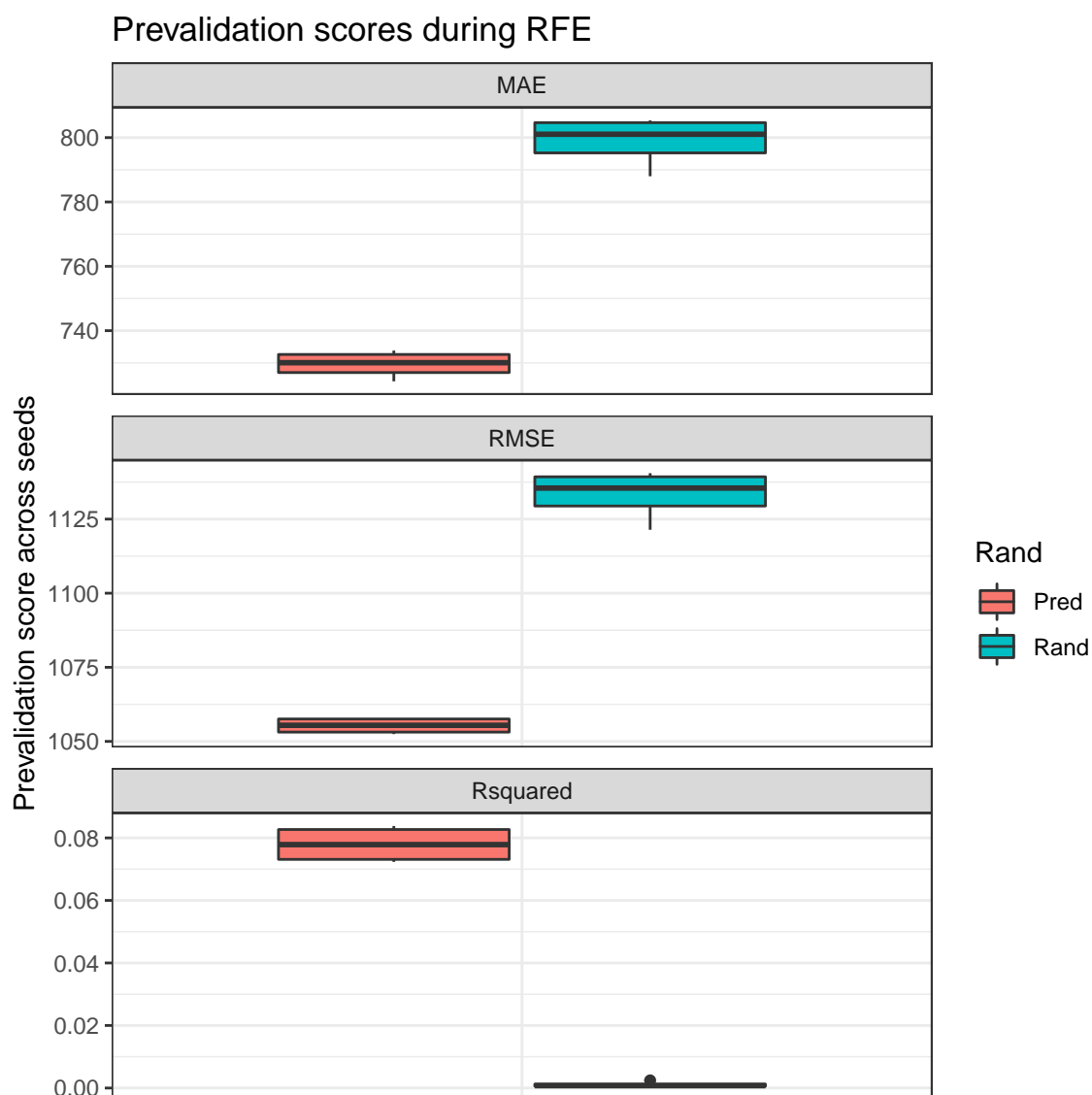
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```
## user input
project_home <- "~/EVE/examples"
project_name <- "lasso_regression_outCV_test"
```

0. Load Data

```
## 300 of samples were used
## 101 of full features
## 4 runs, each run contains 3 CVs.
## os_time :
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##       0.0   182.8   480.0   889.4  1221.2   7125.0
run with lasso.r.
```

1. Scores

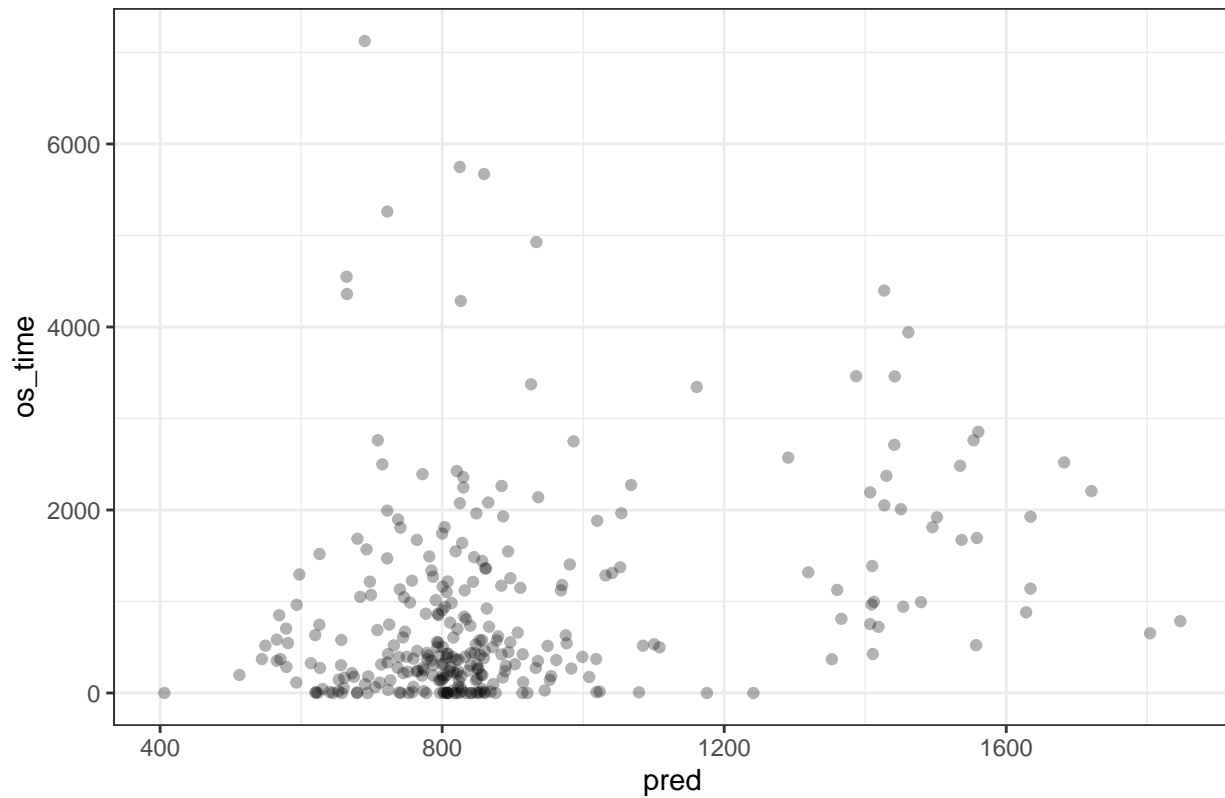


'Pred' compares the actual CV prediction with observed value. 'Rand' compares permuted CV prediction with observed to mimic random prediction.

correlation

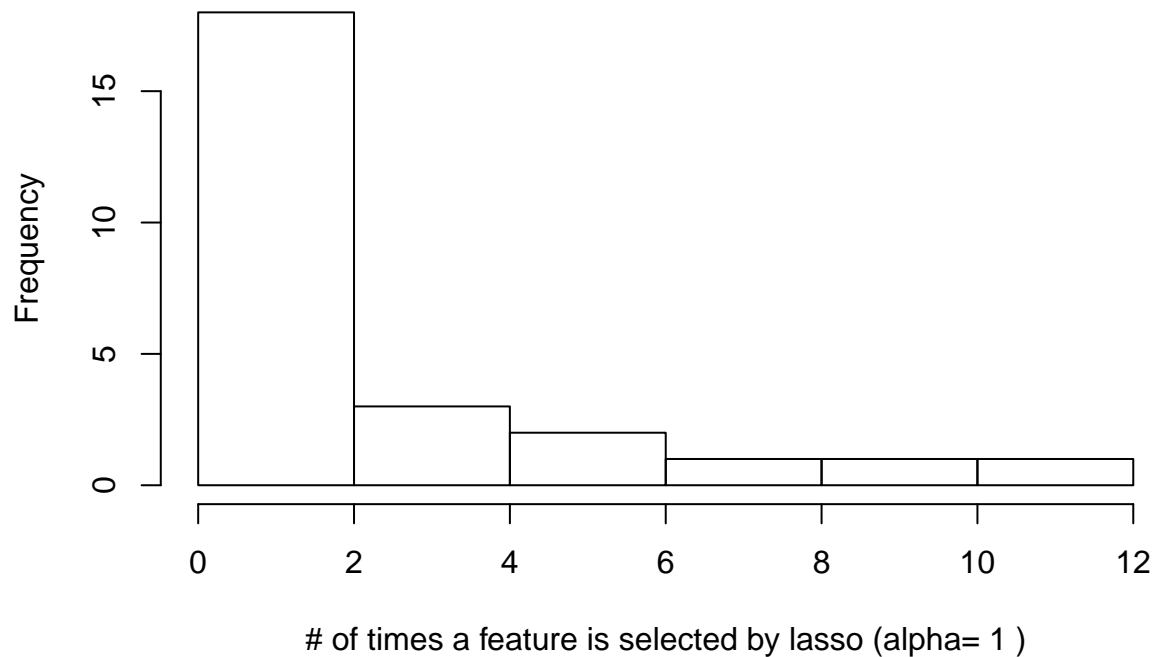
```
##
##
## Table: Averaged pearson correlation across seeds
##
##   cor.avg   cor.sdt
## -----
## 0.2790622 0.0106223
```

Correlation at seed = 1003 using 101 feature set input

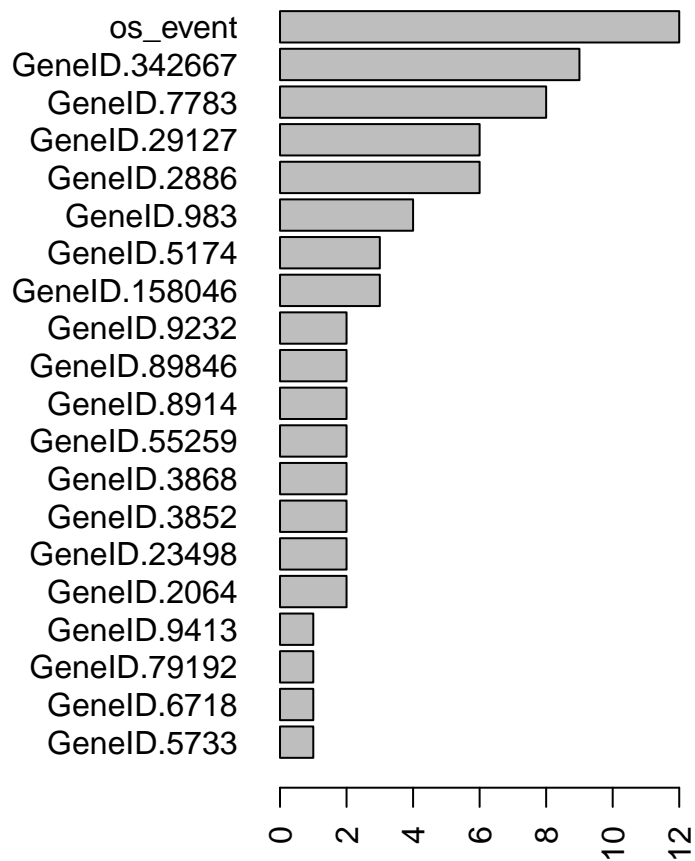


2. Important Features

distribution across 4 seed x 3 CV



Number of times a feature is used



```
## (currently only Lasso has this graph)[1] "there are 26 unique features used from the 101 feature set"
## [1] "summary of number of features used in each run under 4 seeds and 3 CVs"
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      2.000   4.000   6.000   6.417   7.250   14.000
```

