200301-EDA_and_model-yuqi

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data and manipulation

$$\log(\frac{\pi_i}{1-\pi_i}) = \mathbf{x}_i \boldsymbol{\beta}$$

validation using glm

questions or modify:

- 1. normalize or standardize?
- 2. how to standardize easily?

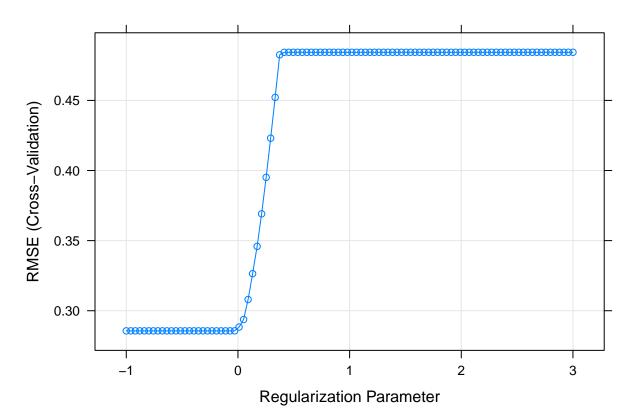
```
# cleaning the above x
library(sjmisc)
y=as.data.frame(x$cv_result)
y_y=rotate_df(y)
names(y_y)=c("Enter", "Fold1", "Fold2", "Fold4", "Fold5")
knitr::kable(y_y)
```

	Enter	Fold1	Fold2	Fold3	Fold4	Fold5
k	0.00	1.0000000	2.0000000	3.0000000	4.0000000	5.0000000
$best_lambda$	0.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
$beta_vec1$	0.02	-0.5851898	-0.5921021	-0.6782398	-0.6305423	-0.5250743
$beta_vec2$	0.02	1.9370600	1.8598428	1.8706748	1.0162875	1.7805325
$beta_vec3$	0.02	0.8620696	0.9438123	0.9124855	0.8276538	0.9191474
$beta_vec4$	0.02	-0.0027197	0.0110750	0.0517034	1.0505263	-0.0067178
$beta_vec5$	0.02	-0.0045932	-0.0077140	-0.0160055	-0.0010837	-0.0105529
$beta_vec6$	0.02	0.4154545	0.4039963	0.3839284	0.3662432	0.5432791
$beta_vec7$	0.02	-0.0406285	0.0146759	-0.0267084	0.0795153	-0.0452543
$beta_vec8$	0.02	0.1820403	0.1956254	0.3122696	0.2686984	0.1299537
$beta_vec9$	0.02	2.0666740	1.9595822	1.9458032	1.8233049	2.3142211
$beta_vec10$	0.02	0.0725989	0.1110710	0.1140780	0.1066402	0.1031025
$beta_vec11$	0.02	-0.1413081	-0.1589079	-0.1699873	-0.1369779	-0.1387135
$g.stat_tr$	Inf	137.3082360	135.9975379	116.9462145	135.4900541	114.5090024
auc_te	0.00	0.9913435	0.9923154	0.9849530	0.9826870	0.9743770
$g.stat_te$	Inf	22.6159703	22.1514224	48.1975784	34.5067570	48.0076306
SSE_test	Inf	4.2783563	4.1138120	4.9735803	5.9718400	6.8409613

instead of using MSE, using pearson chi-square

```
## alpha lambda
## 25 1 -0.03030303
```

plot(lasso.fit)



```
# min(lasso.fit$results$RMSE)
# co=coef(lasso.fit$finalModel,lasso.fit$bestTune$lambda)
# co2=co@x
#
# names(co2)=co@Dimnames[[1]]
# co2 %>% as.data.frame() %>% knitr::kable()
```