

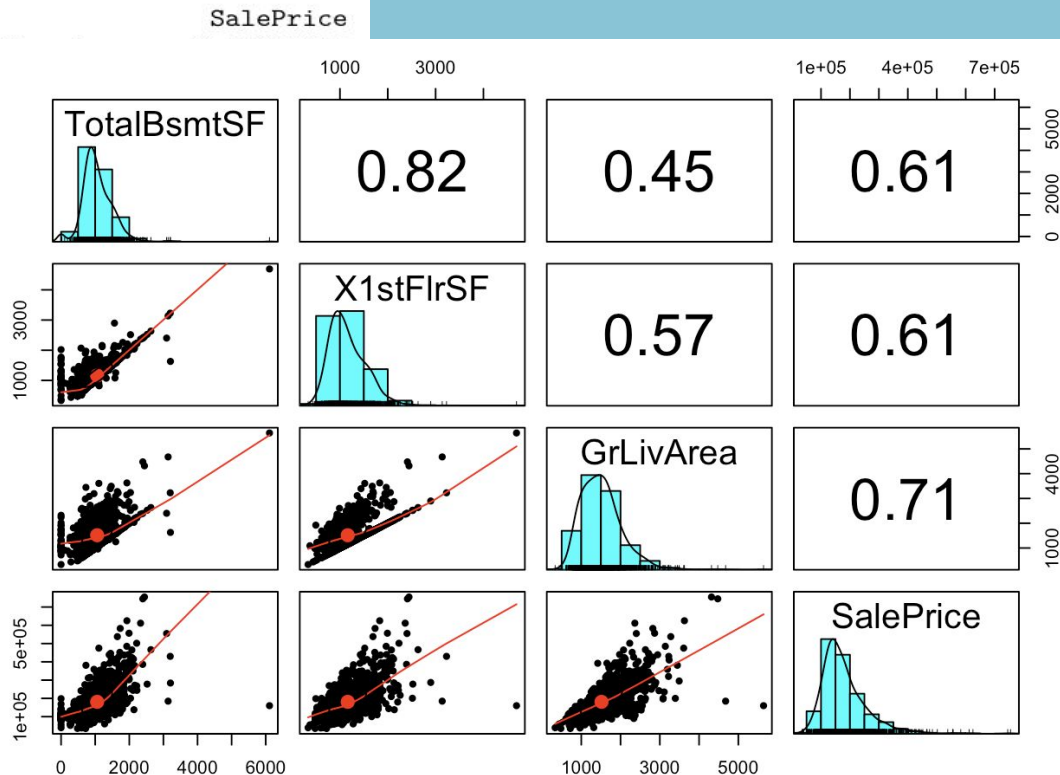
```
print(dim(train))
```

```
## [1] 1460 81
```

Pri

Predic

Fea
Sel



ediction of the

X3SsnPorch	0.04458367
ScreenPorch	0.11144657
PoolArea	0.09240355
MiscVal	-0.02118958
SalePrice	1.00000000

P
C
R

Model Assumption

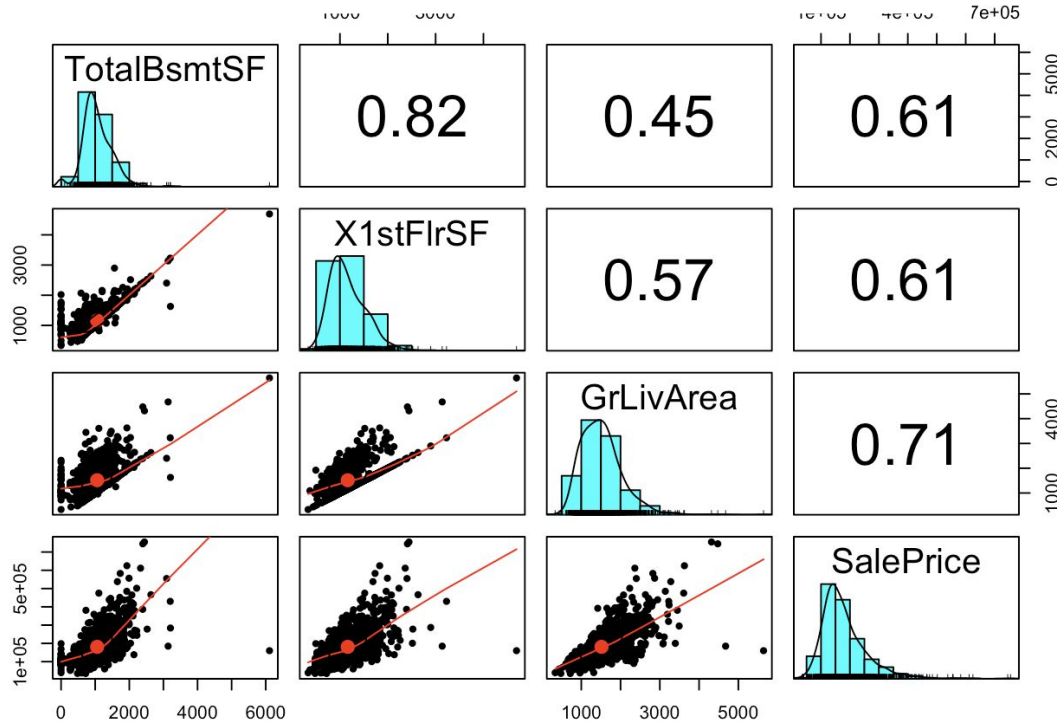
Check Assumption 5: Little / No Multicollinearity

- Lasso and Ridg
- Assumptions ne

The normal linear

$$Y_i = \beta_o +$$

$$e_i \stackrel{iid}{\sim} I$$



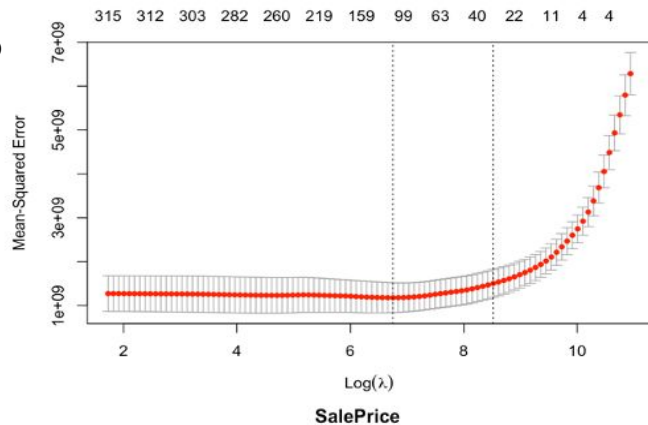
).

$$X) = \sigma^2.$$

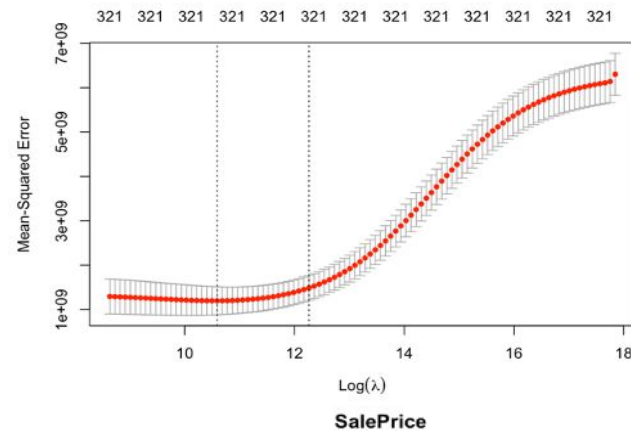
data.

Model Analysis

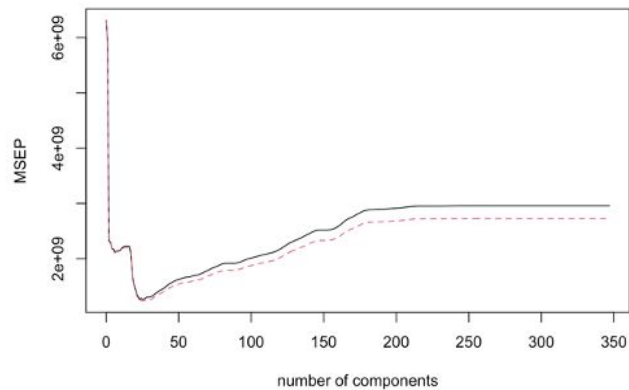
LASSO



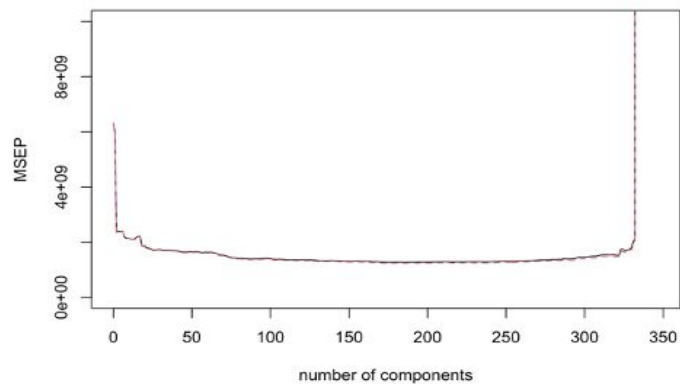
Ridge



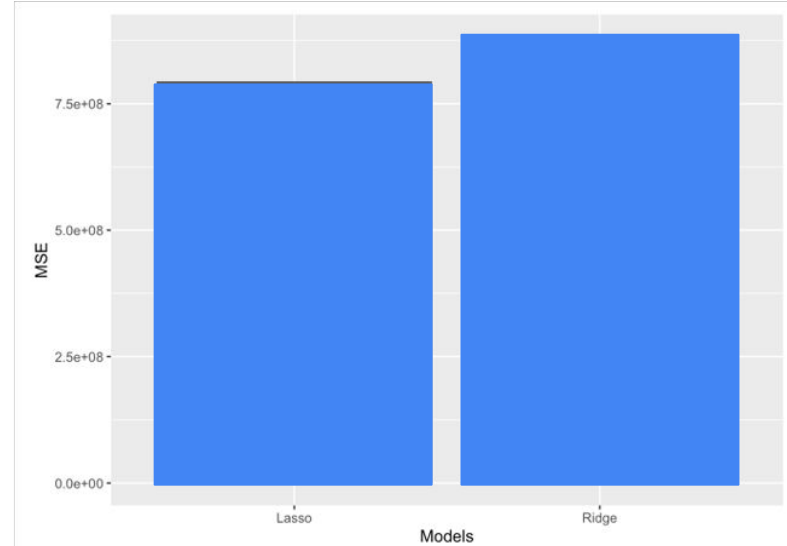
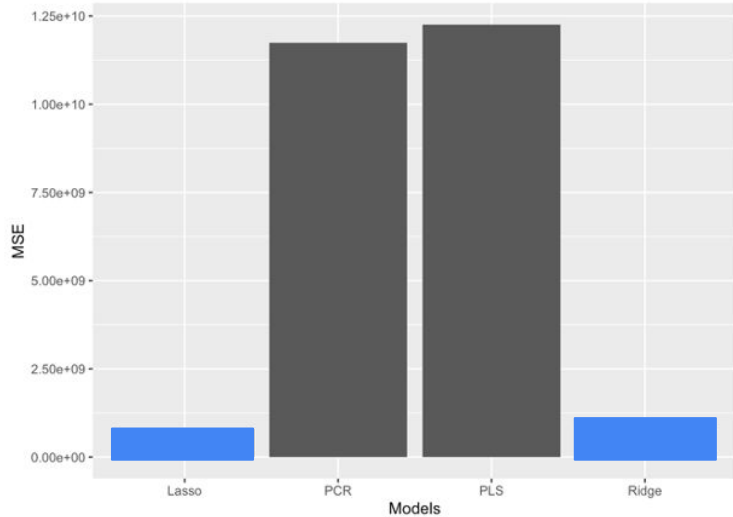
PCR



PLS



Models Comparison - MSE



- (1) **PLS** and **PCR** has comparably similar MSE, while **Lasso** and **Ridge Regression** has comparably similar MSE.
- (2) **Lasso** and **Ridge Regression**'s MSE much smaller than **PLS** and **PCR**'s MSE.
- (3) **Lasso** has the lowest MSE value.