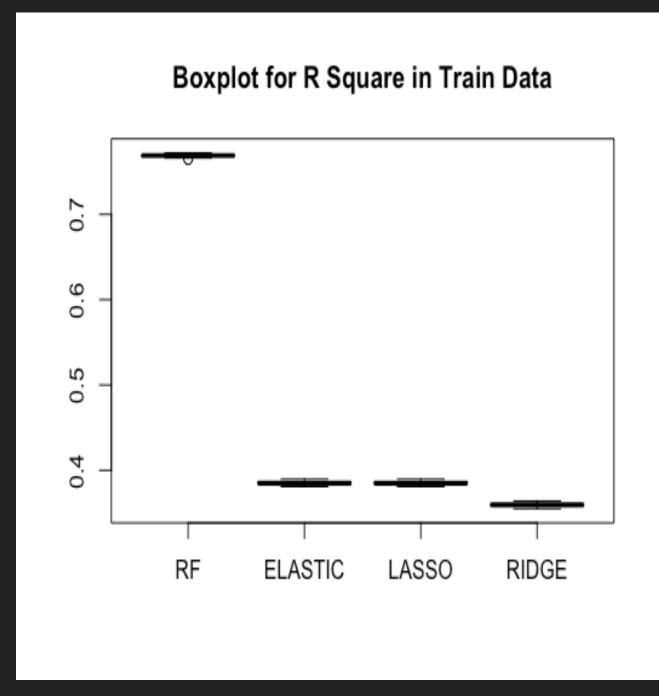
STA 9890 HOTEL SCORE PREDICT PROJECT

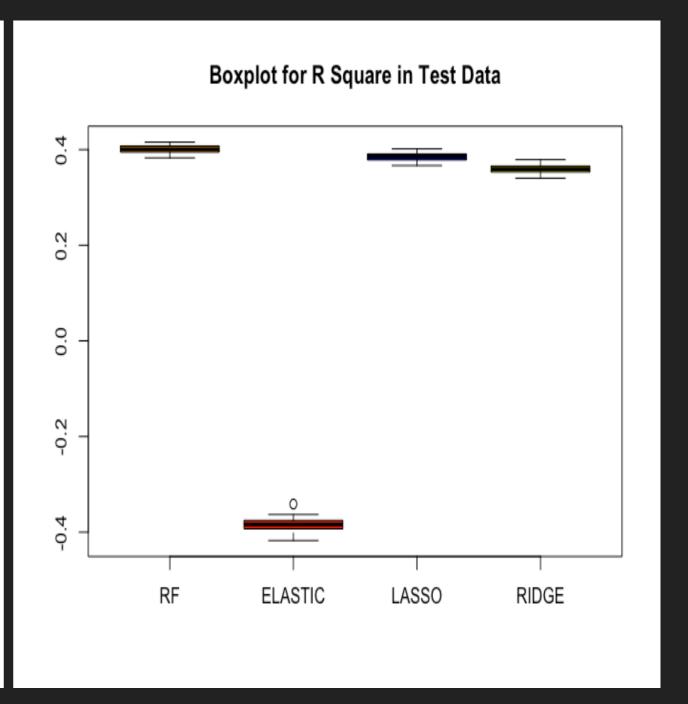
ZILING WAN

Github: https://github.com/ZWan7/ZILING-WAN---STA9890

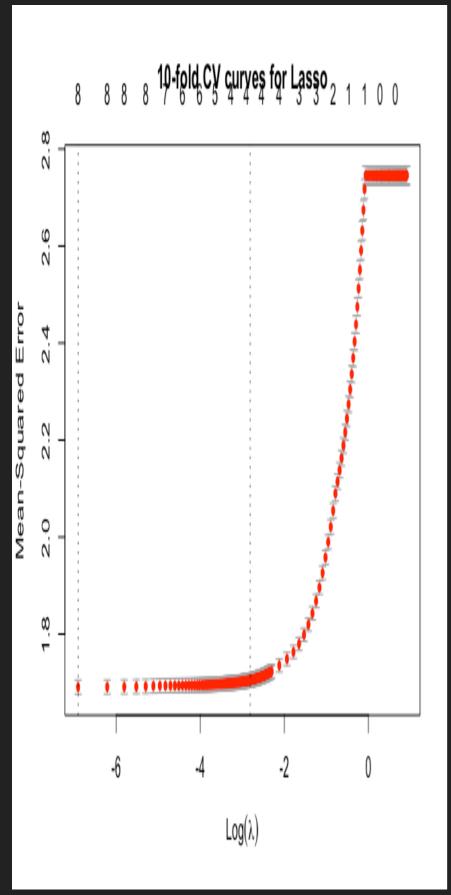
DESCRIPTION OF DATA

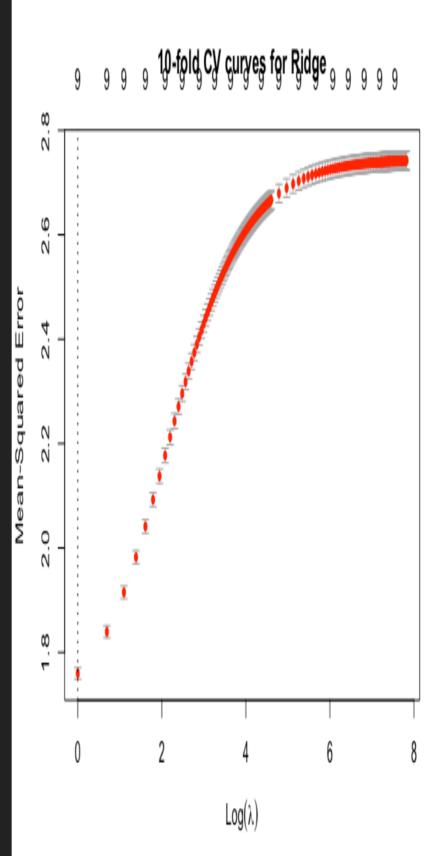
- Source of Dataset
 - https://www.kaggle.com/ycalisar/hotel-reviews-dataset-enriched/data#
- Observations: 65534
- Features: 41 (10 after processing)
- Response : Hotel Score
- Predictors: # of positive words, Average score, Review positivity rate, etc.
- Regression Methods: Elastic Net, Ridge, Lasso, Random Forest

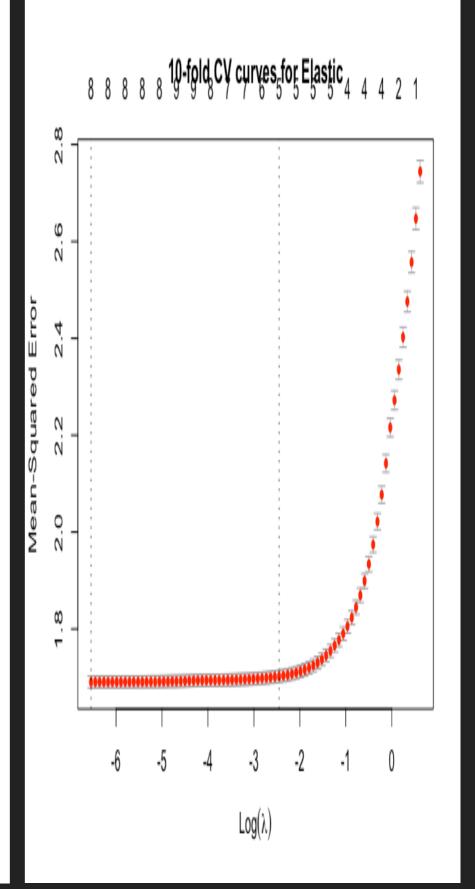




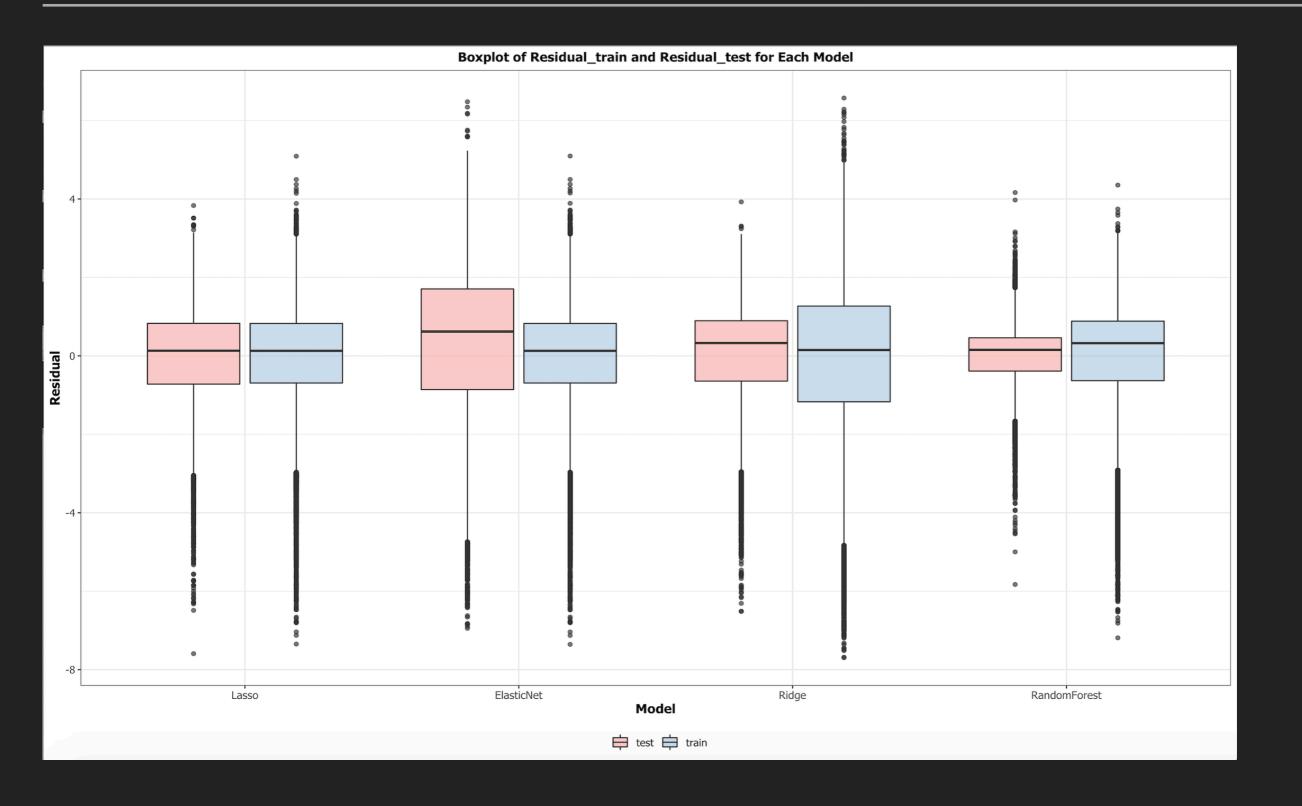
10-FOLD CV CURVES FOR THREE MODELS



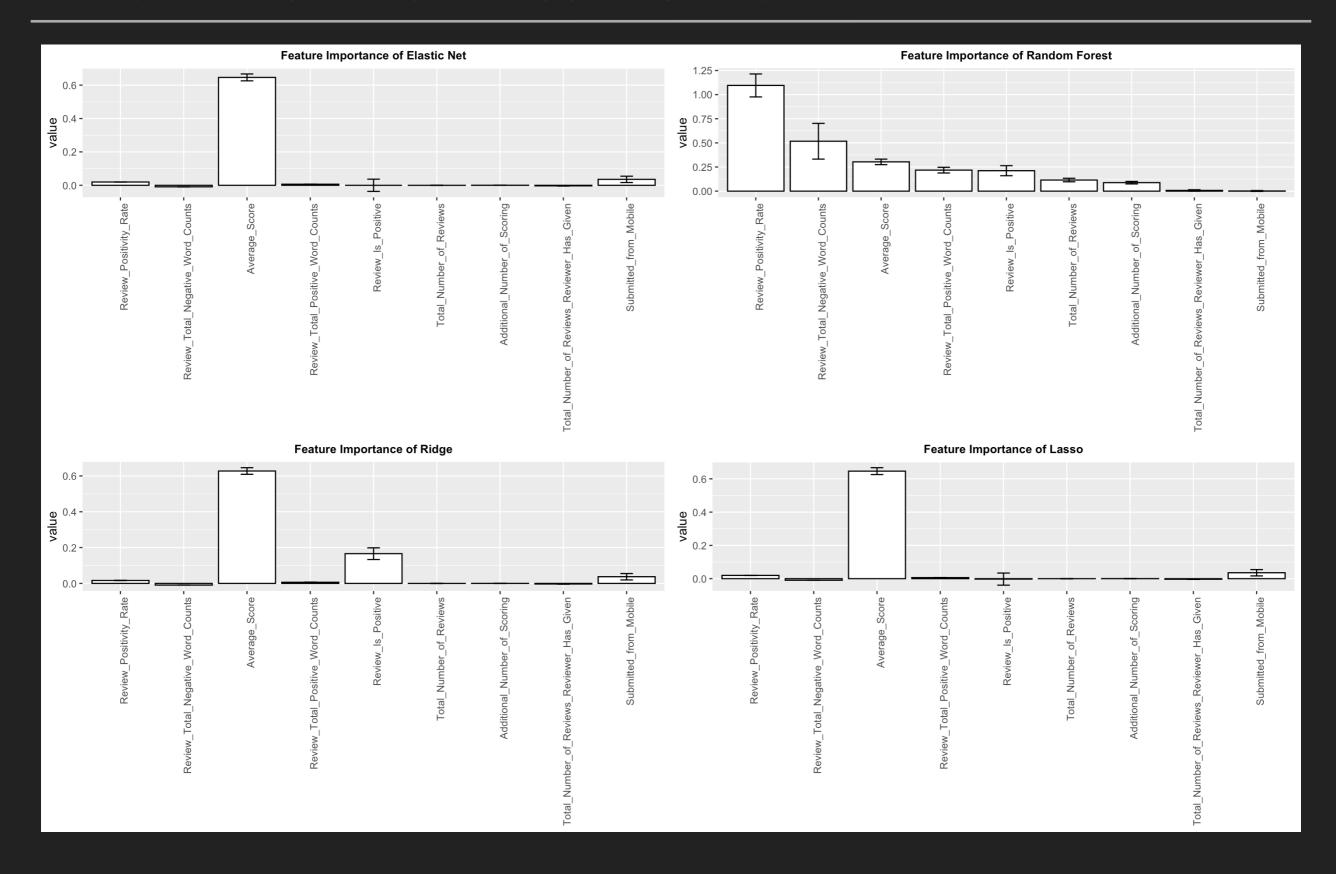




SIDE BY SIDE BOX PLOT OF RESIDUALS



FEATURE IMPORTANCE IN FOUR MODELS



SUMMARY

Model	Performance	Time
Lasso	0.385	1.44
Elastic Net	0.384	1.34
Ridge	0.359	1.52
RandomForest	0.401	38.98