

Question 1

What is the optimal value of alpha for ridge and lasso regression? What will be the changes in the model if you choose double the value of alpha for both ridge and lasso? What will be the most important predictor variables after the change is implemented?

Answer

Optimal value of alpha for ridge regression : 500

Optimal value of alpha for lasso regression : 1000

Choosing the double the values will underfit the model.

Question 2

You have determined the optimal value of lambda for ridge and lasso regression during the assignment. Now, which one will you choose to apply and why?

Answer:

Will choose the Ridge Regression as it minimises the R2 Score between Train and Test

Question 3

After building the model, you realised that the five most important predictor variables in the lasso model are not available in the incoming data. You will now have to create another model excluding the five most important predictor variables. Which are the five most important predictor variables now?

GrLivArea, OverallQual, TotalBsmtSF, 1stFlrSF, 2ndFlrSF

1.