

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:

The optimal value of alpha for ridge and lasso regression is 10 and 100 respectively. If I choose double the value of alpha for both ridge and lasso then the result will be biased and may form a straight line at zero point of y-axis. 'TotalBsmtSF', 'LowQualFinSF', 'WdShngl' will be the most important predictor variables after the change is implemented.

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:

After determining the optimal value of lambda for ridge and lasso regression during the assignment I would like to choose ridge regression to apply because it is more understandable rather than lasso in my case.

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?

Answer:

The another five most important variable excluding the previous five variables could be 'Membran', 'GrLivArea', '1stFlrSF', '2ndFlrSF', 'BsmtUnfSF'.

Question-4:

How can you make sure that a model is robust and generalisable? What are the implications of the same for the accuracy of the model and why?

Answer:

As per the result of the accuracy of the model it can be said that the model is robust and generalisable. The implications of the same for the accuracy of the model is 0.99.