



4 penalizes original R2 as you increase the # of features

Problem: I we add irrelavent when Rt or _ instead of t.

When SST is high (Data is very dispersed) there is a high chance the SSR will be high also but overall R2 will not get penalized very much.

-> How much of the features are we able to exploit.
-> 11 " " variance in the features are we able to utilize.

- Performance evaluation metrics: MSE and R-squared
- ullet The performance of the linear regression model can be measured by MSE or R^2 .
- Split the data set into training and validation data, and apply the regression line fitted to the training data to the validation data to evaluate the performance of the model.
- R-squared is a measure that determines the proportion of the variance of the dependent variable that can be explained by the independent variables. R? = SSR / SST *

