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Model: Ridge Regression

Loss function: The loss here I have used is Mean Squared Loss

Validation Method : So I have randomly splitted the data as test 20% and train 80% i.e Hold-out method. As per me, the data is quite sufficient to show its complexity. So, Hold-out would work well. The other method, cross validation, takes more computational power and time to run

And then I calculated the training loss and validation loss for different values of lambda. The best lambda comes out to be 0.0. That means it's actually the nonlinear regression.

Below is the lambda's plot



