

Brandon Quant  
COEN 140  
Lab 5 Report

In this lab, I implemented the linear regression and ridge regression model using the local crime statistics data. After, I calculated the RSME for both regression models.

Regression Model	RSME for Training Data	RSME for Testing Data
Linear Regression	0.1276896742176219	0.14583464490949322
Ridge Regression	0.13134320424615784	0.14765698468526112

Overall, the RSME for the linear regression model was smaller than the RSME for the ridge regression model. However, the ridge regression model does alleviate overfitting because the difference between the RSME of the training and testing data is much smaller than that of the linear regression model