Report
Project 1: House Price Prediction Abstract

To forecast home sales prices, I developed a machine learning model to predict home sales prices. My lasso regression model received an R2 of 0.47. In the test set, the r2 score had a mean squared error of 150344119063.76 and a mean squared error of 187035.39. I specified the house's square footage (sqft living). The data set house data train.csv refers to the actual price of the house. The number of bedrooms in a house is frequently one of the determining factors in its price. Houses with more bedrooms tend to be more expensive than those with fewer bedrooms.

Lasso Regression model

I chose to use a lasso regression model to predict house prices because it had the highest r2score and the lowest mean square and mean absolute errors. My linear regression model has an r2 score of 0.47, a mean square error of 150344119063.76 and a mean absolute error of 187035.39.

Performance testing

Sample testing of my price prediction with using sqft_living and price of the house

Y[index in array]	Predict Price	Actual Price	Difference of actual price and predict price
0	537900.3137	350000	-187900.3137
1	452040.5234	475000	22959.4766
2	361450.7971	422000	60549.2029

Average error between prediction price and actual price is: -34797.211