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CSCI183
3 May 2022

CSCI183 Lab Report (Graph Screenshots, Observation Table)

Dataset 1 - housing.csv

Observation Table - Target Variable: median_house_value

Feature	Slope	Intercept
median_income	41793.849202	45085.576703
total_rooms	7.095972	188152.515342
households	19.872775	196928.577162

Graphs - Target Variable: median_house_value

Graph 1: Correlation Matrix with all variables



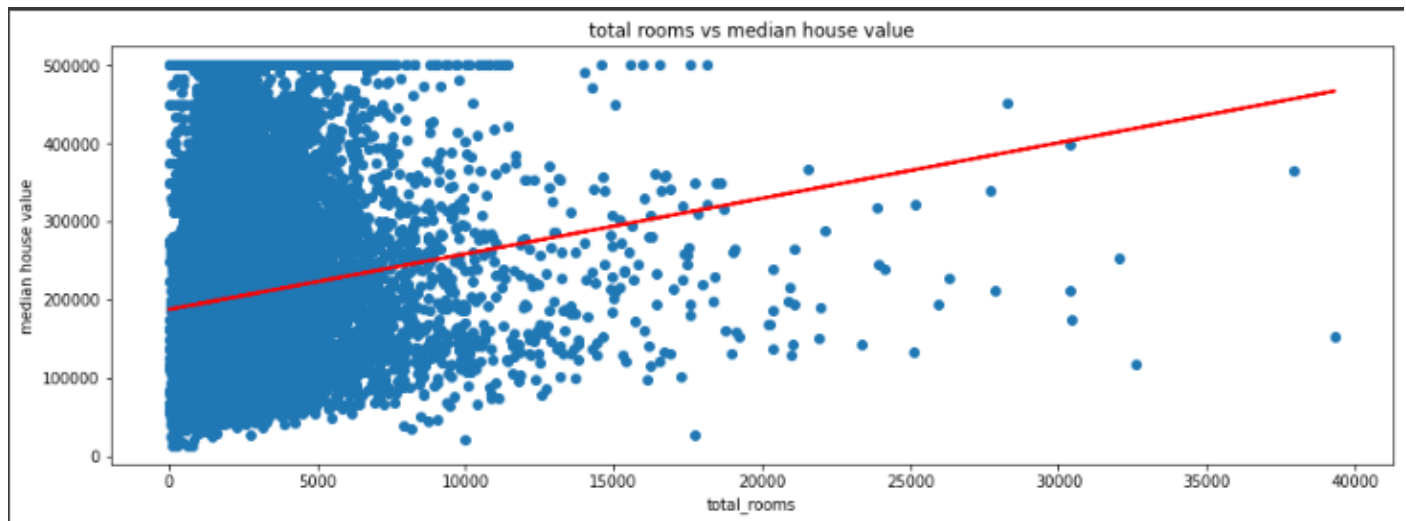
Graph 2: Correlation Matrix with numerical variables



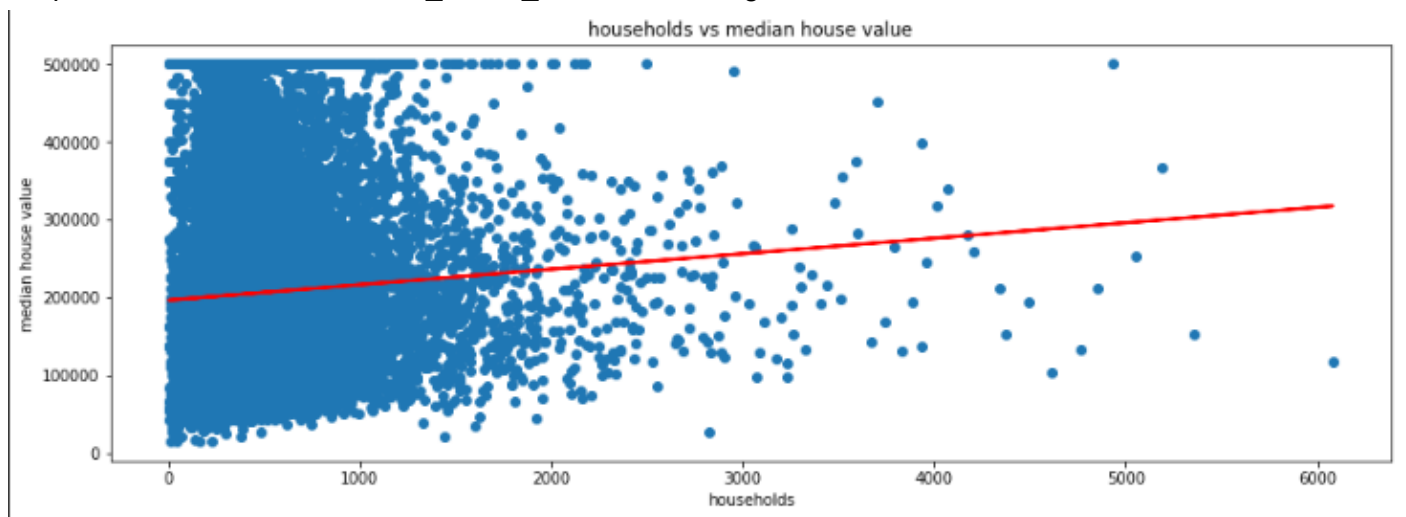
Graph 3: median_income vs. median_house_value Linear Regression



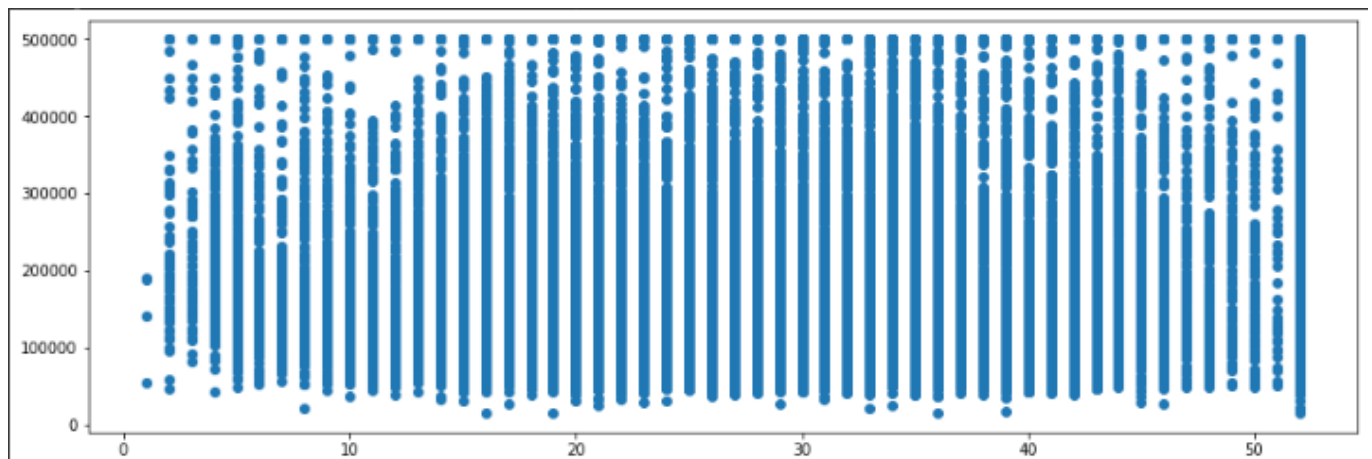
Graph 4: total_rooms vs. median_house_value Linear Regression



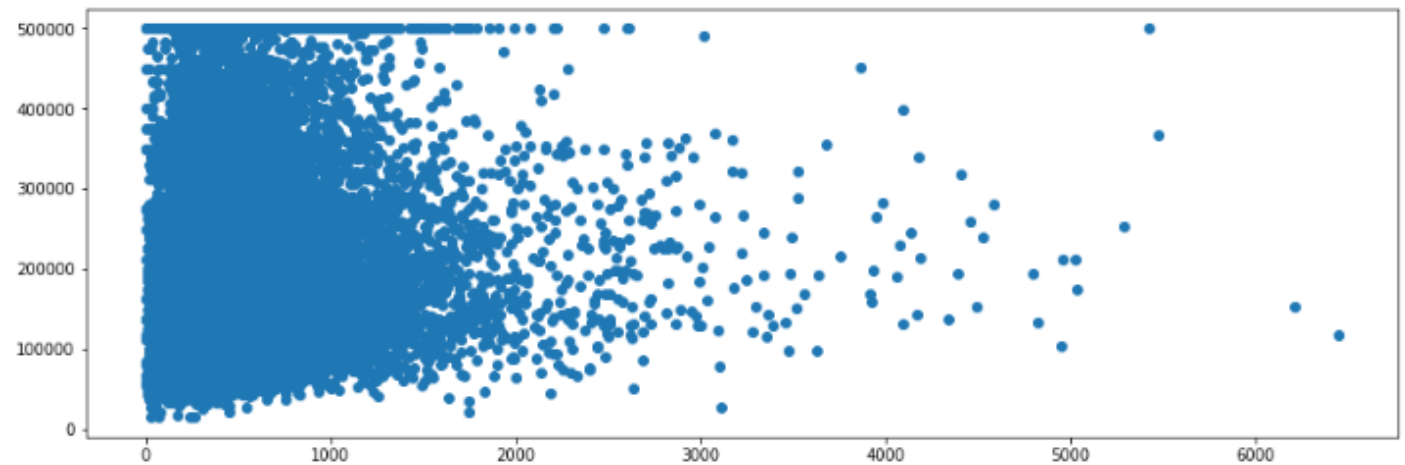
Graph 5: households vs. median_house_value Linear Regression



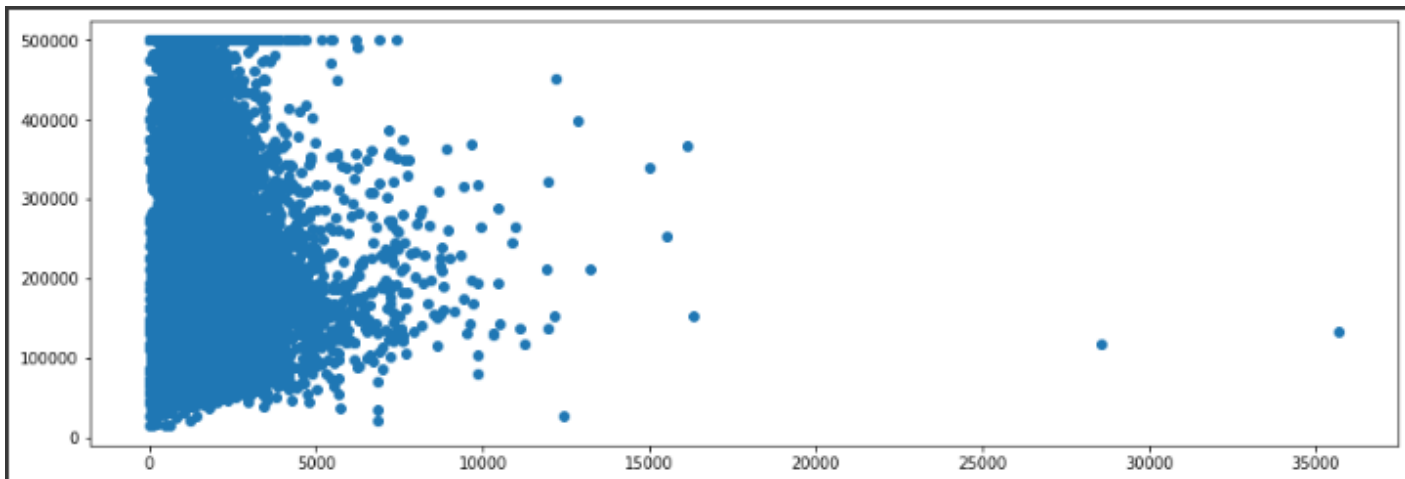
Graph 6: housing_median_age vs. median_house_value



Graph 7: total_bedrooms vs. median_house_value



Graph 8: population vs. median_house_value



Dataset 2 - kc_house_data.csv

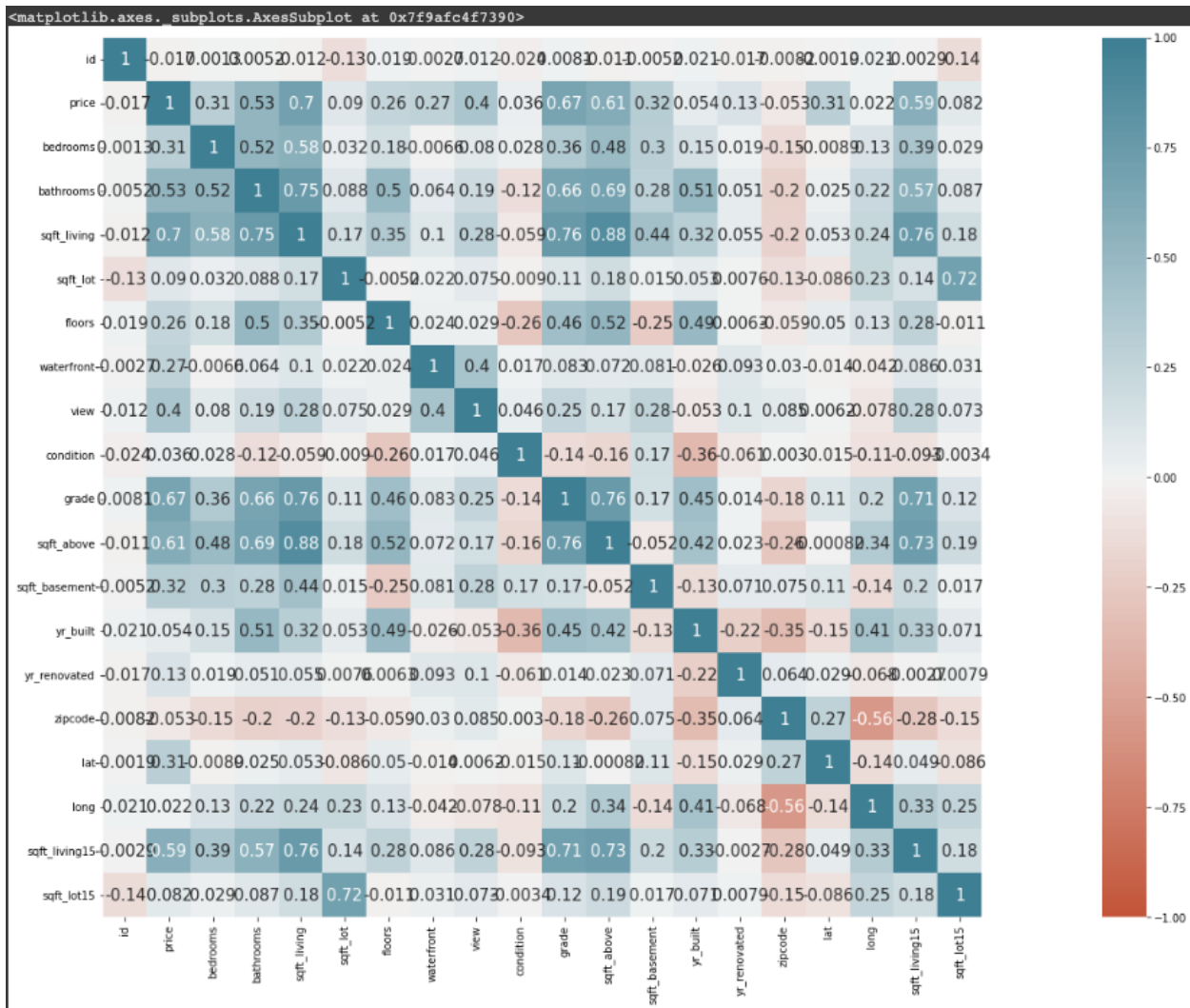
Observation Table - Target Variable: price

Feature	Slope	Intercept
bedrooms	121716.126512	129802.356318
bathrooms	41793.849202	45085.576703
sqft_living	7.095972	188152.515342
sqft_above	19.872775	196928.577162
sqft_basement	268.613583	461784.852648

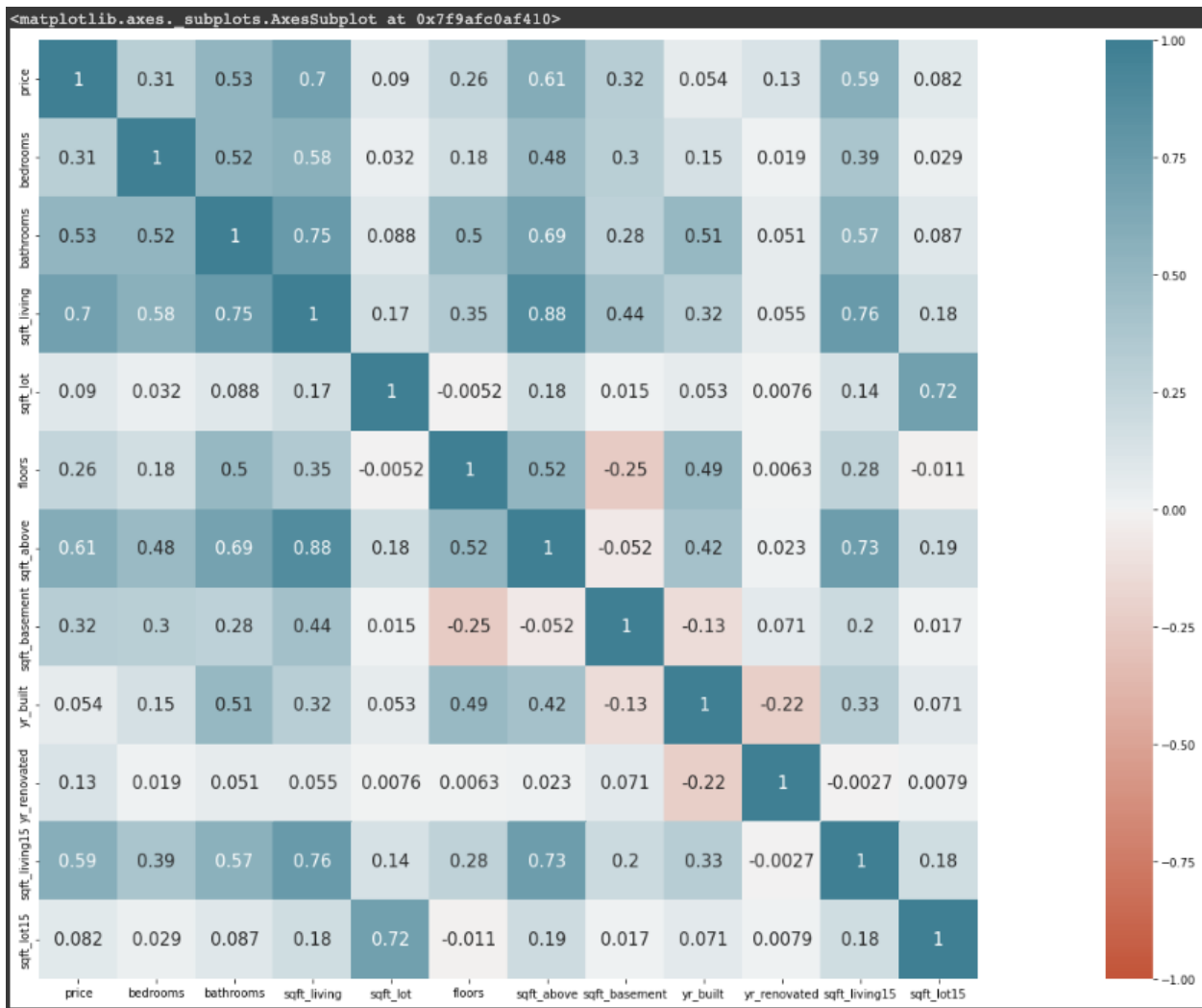
sqft_living15	313.555942	-82807.195209
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Graphs - Target Variable: price

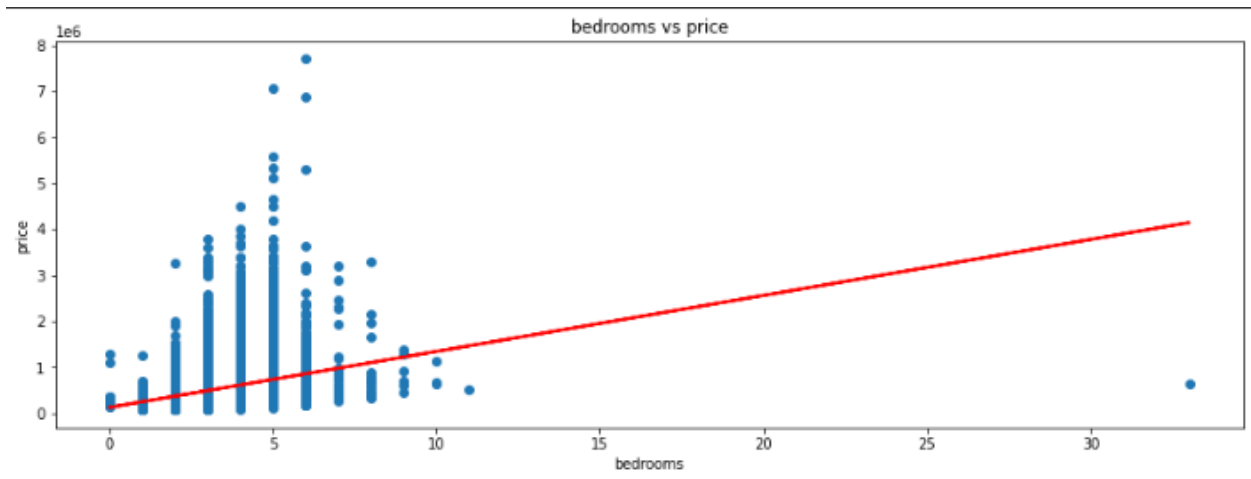
Graph 1: Correlation Matrix with all variables



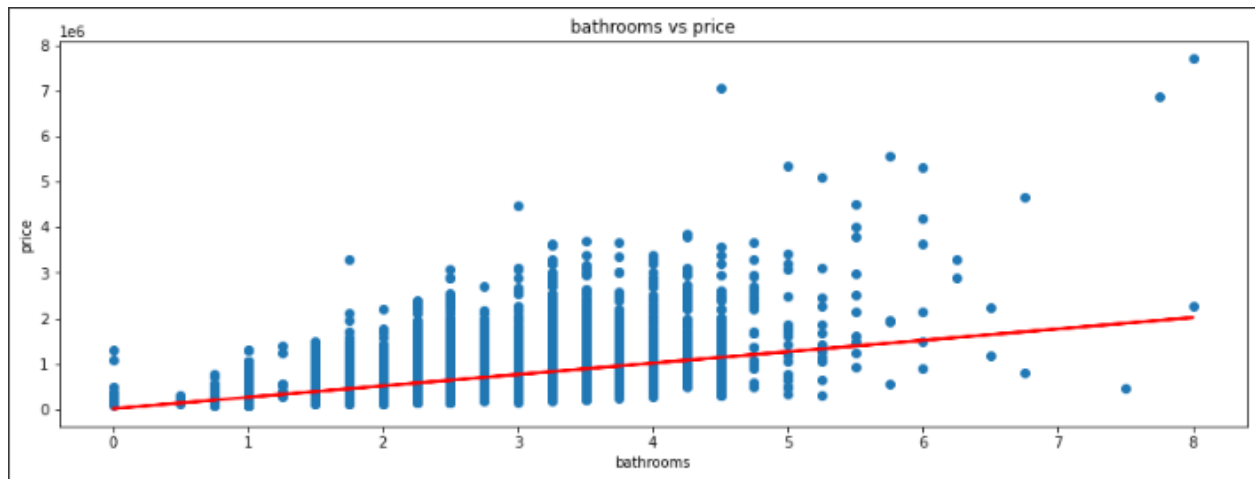
Graph 2: Correlation Matrix with numerical variables



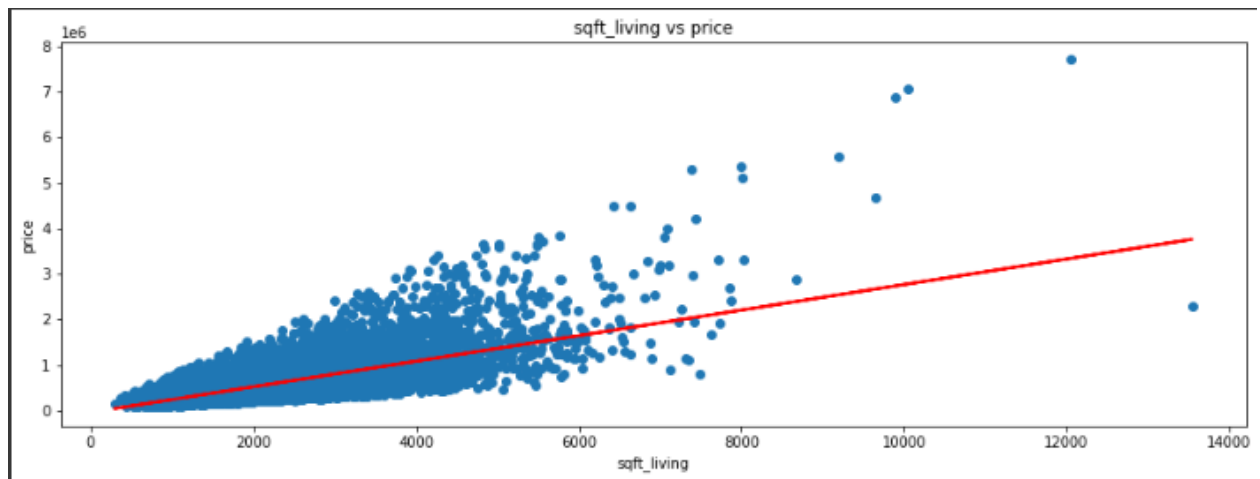
Graph 3: bedrooms vs. price Linear Regression



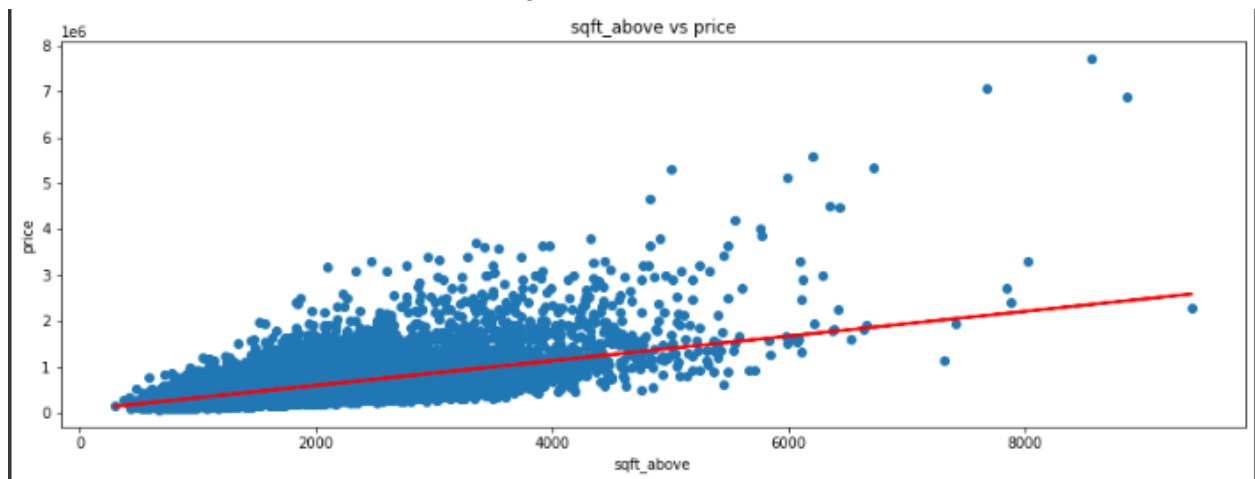
Graph 4: bathrooms vs. price Linear Regression



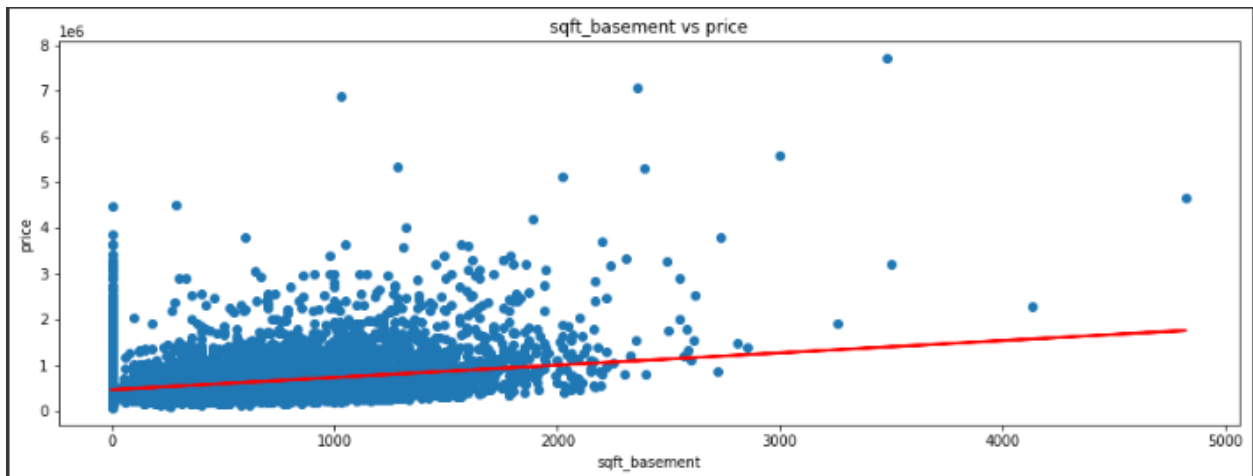
Graph 5: sqft_living vs. price Linear Regression



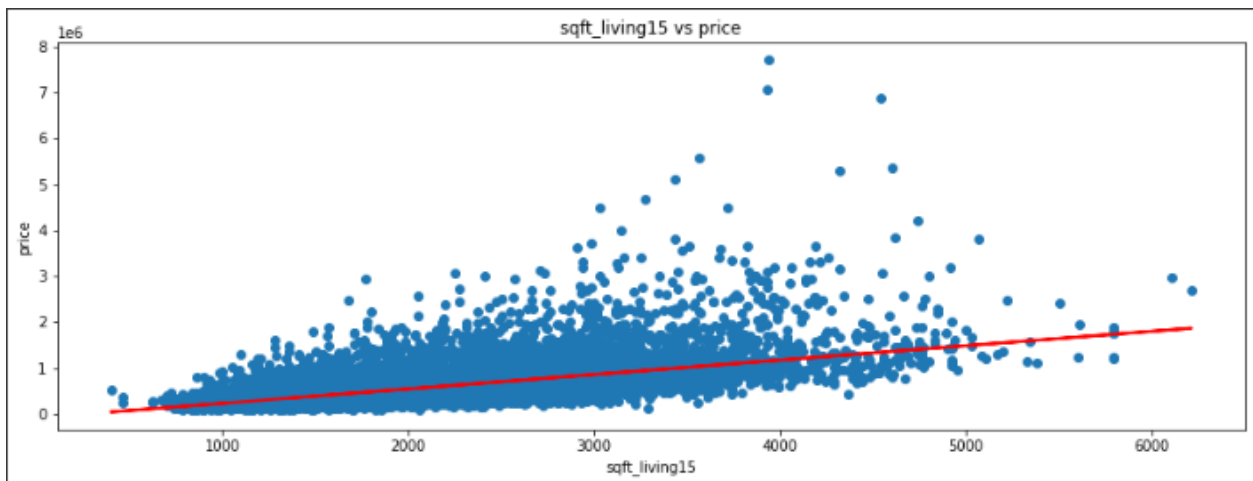
Graph 6: sqft_above vs. price Linear Regression



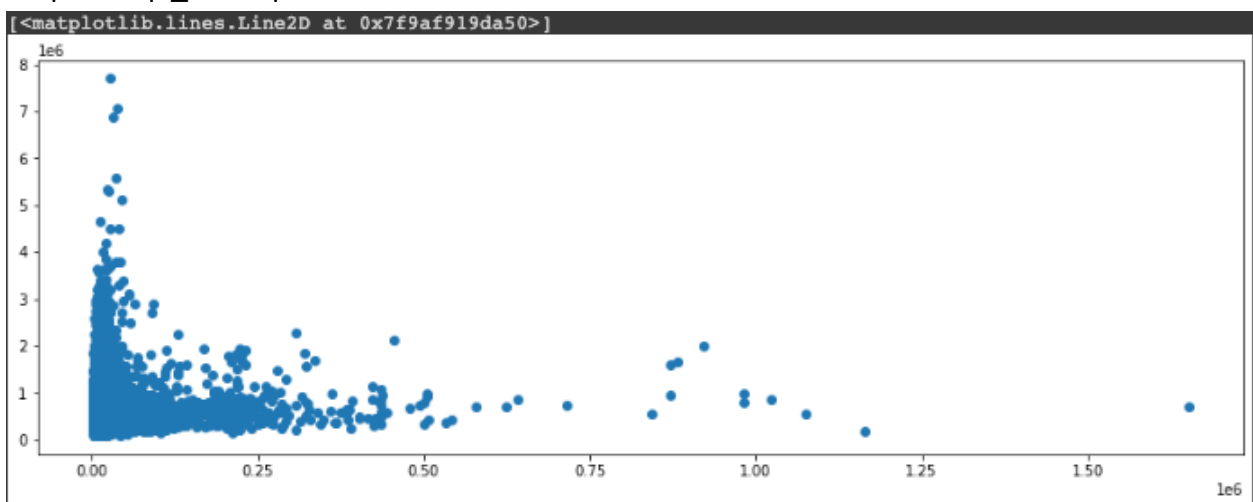
Graph 7: sqft_basement vs. price Linear Regression



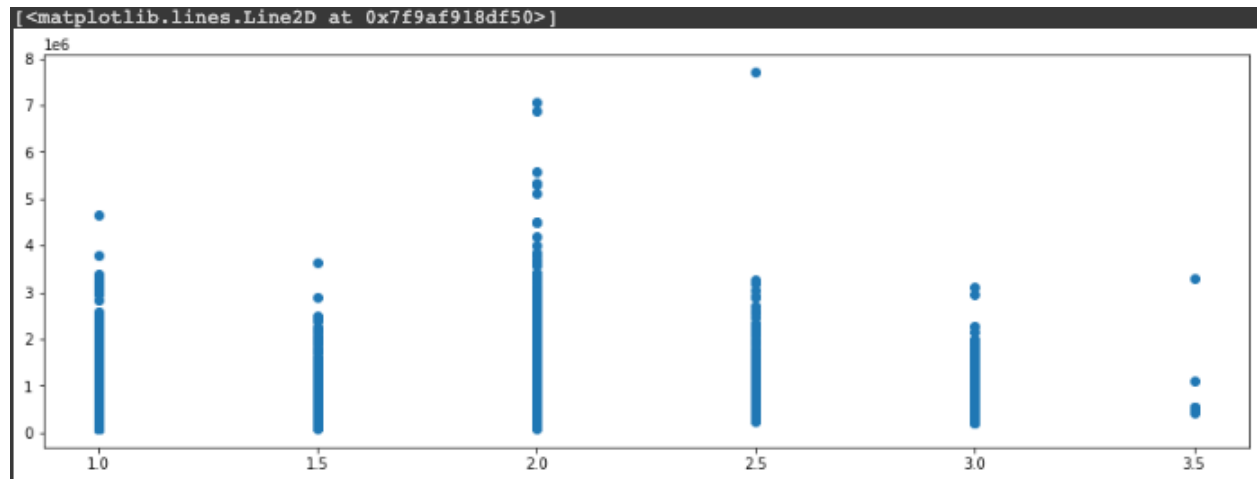
Graph 8: sqft_living15 vs. price Linear Regression



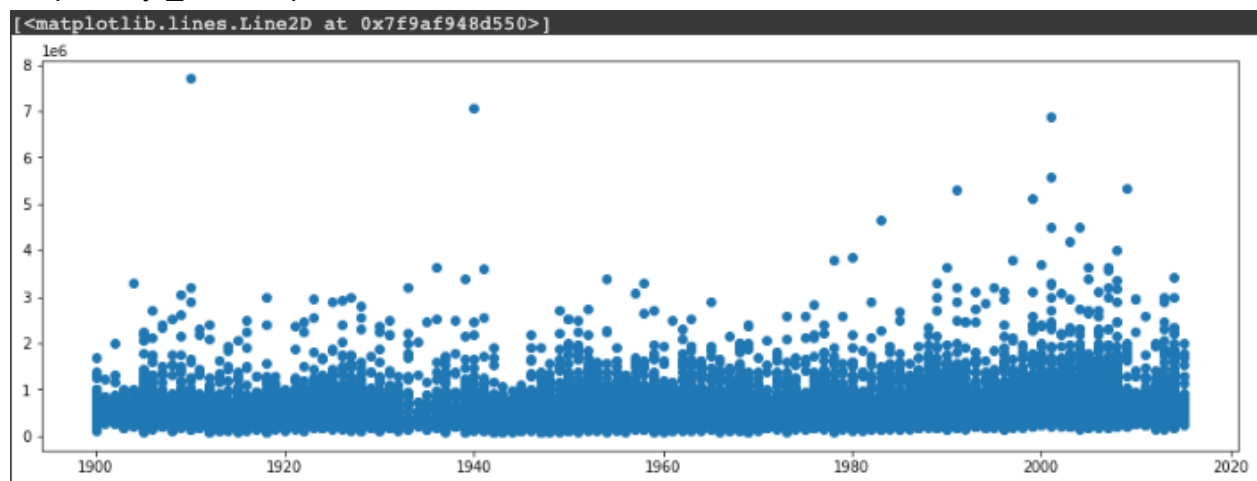
Graph 9: sqft_lot vs. price



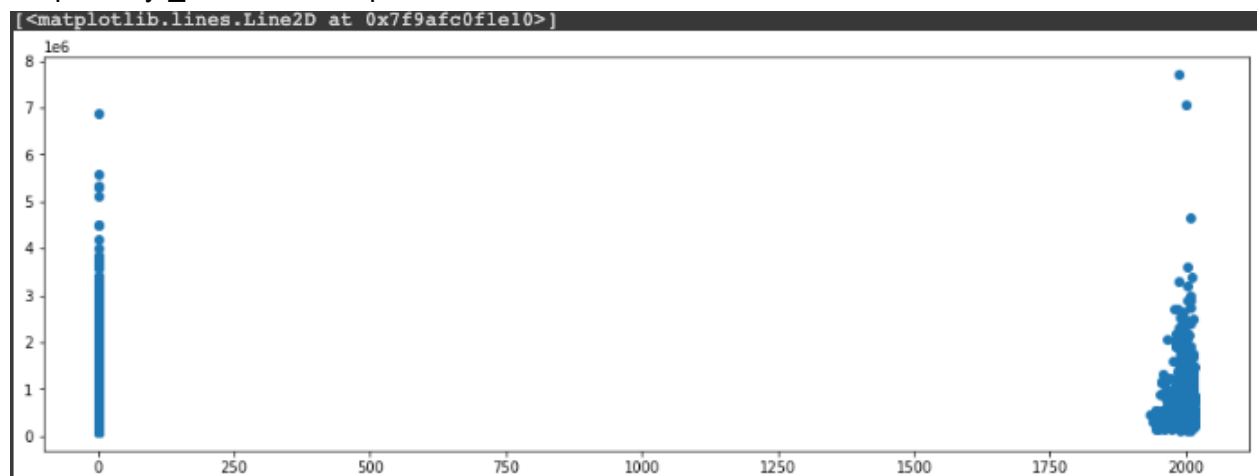
Graph 10: floors vs. price



Graph 11: yr_built vs. price



Graph 12: yr_renovated vs. price



Graph 13: sqft_lot15 vs. price

