PREDICTING HOUSE PRICES USING LINEAR REGRESSION

BRIAN KIGEN

BUSINESS UNDERSTANDING :
Emerald City Realtors need to provide prospective home seller with guidance improve the values of their home through using machine learning to estimate the sale of their properties.
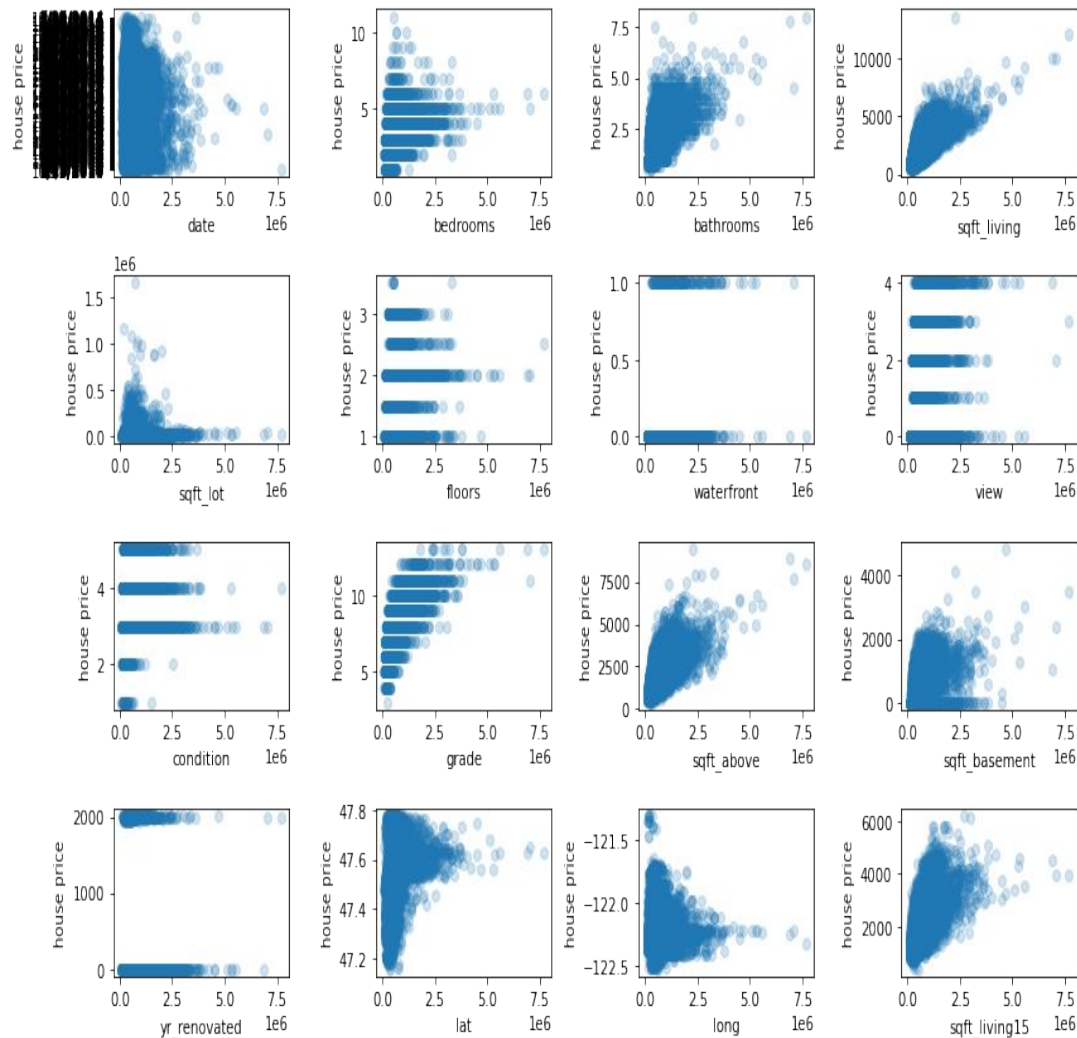
PROBLEM STATEMENT:

- I will use house data set from king house dataset to build a linear regression model that predict Sale price of properties.

MODELLING

- Linear regression allows us to convey a linear relationship – such that we can observe a one unit increase in X results in a one unit increase in Y.
- In this business case, using regression models allows for us to determine how sale price is impacted by different features and to what degree.
- Building complex models with multiple features allows for us to be able to make more accurate, data-driven predictions.

- **CORRELATION BETWEEN NUMERICAL FEATURE AND PRICE**

- In our final model, all features have a statistically significant linear
- Linear relation with sale price
- While holding all other variables constant:
- The addition of a bathroom increases sale price by $30000
- The addition of one floor level increases sale price by $ 10000

THANK YOU!