

In the name of Allah most
Gracious most merciful
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Title :project houses price .

I want predict price of KC city house for some features, when I predicted this houses price if any one need puy or sales I can get them their house price

1.data propagation

I read data by csv file ,I used head ()function to print first 5 rows and eatch columns in dataset,I used isna() to see if there missing data or not ,the data is clean, and I used describe function to see Statistical data. And use corr() to

see correlation between price and other features, I find some features it is not impact for the price, we can delete it.

1.1. Features selection

I have 16 columns in x , this features is alot I used SelectKBest to select best 7 features (there, are another class we can use to select features like SelectPercentile and SelectFromModel)

1.2 Data splitting

Explain in code

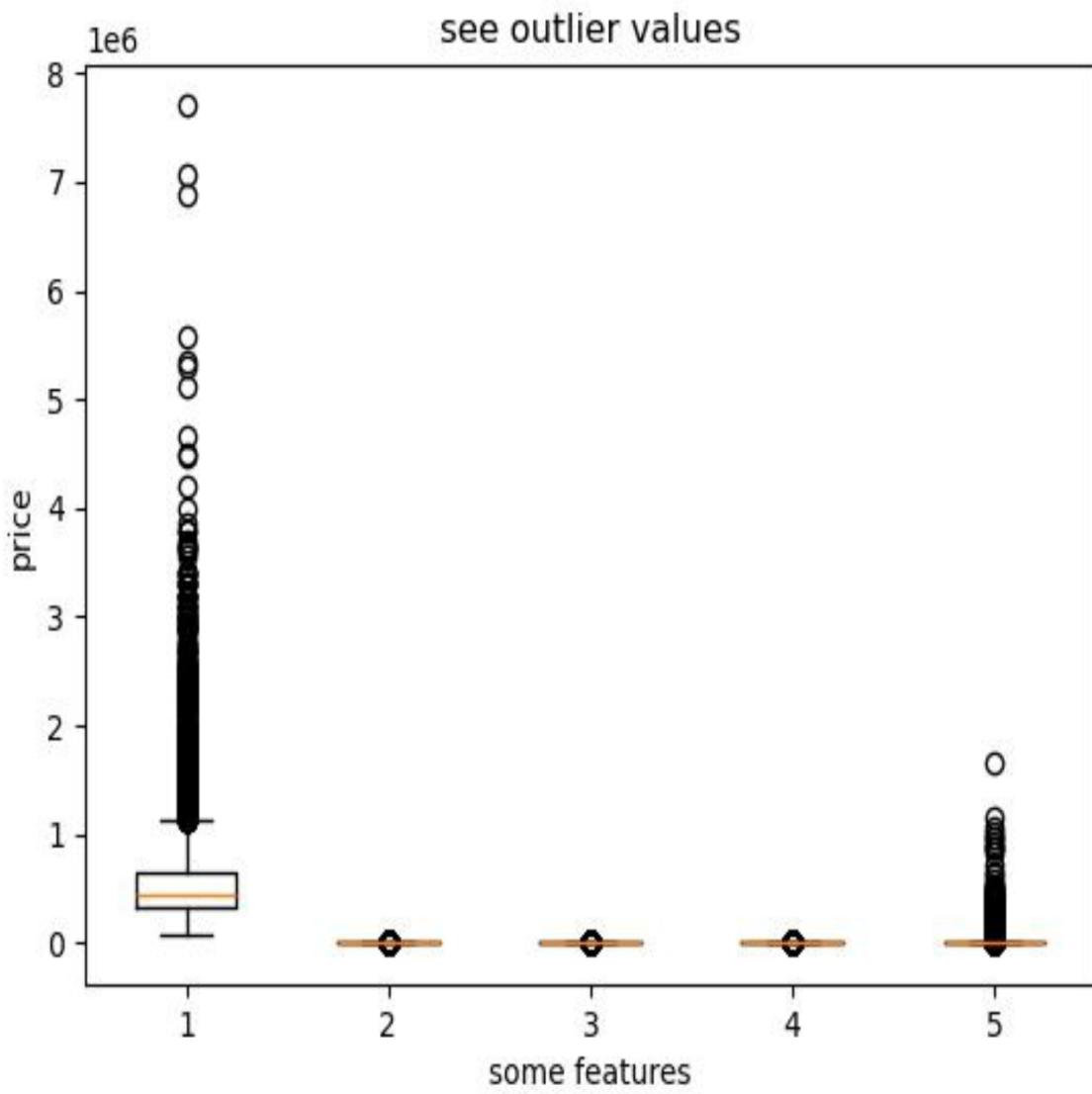
1.3 Data scaling

Scale data in Small range, that make model work best(there are may type like StandardScaler and MinMaxScaler)

1.4 Data visualization (matplotlib library)

1.4.1 boxplot

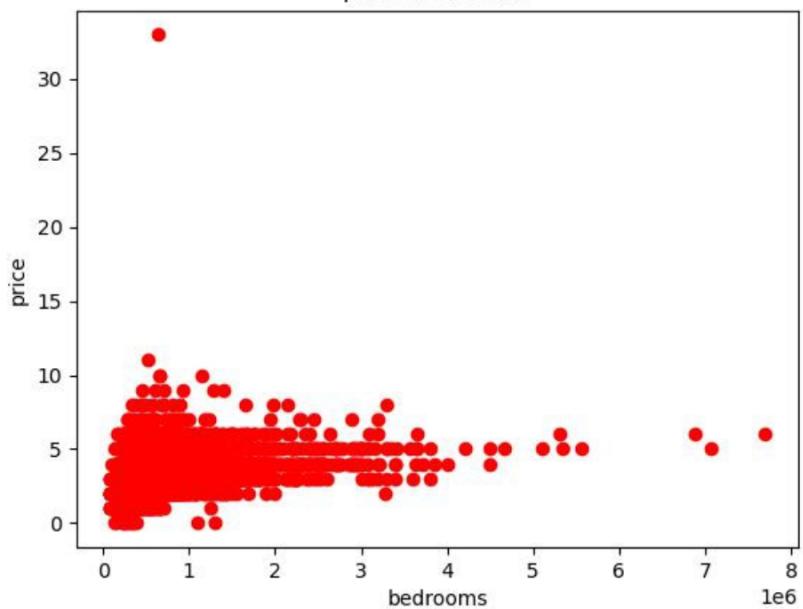
I used boxplot to see data if it has outlier or not



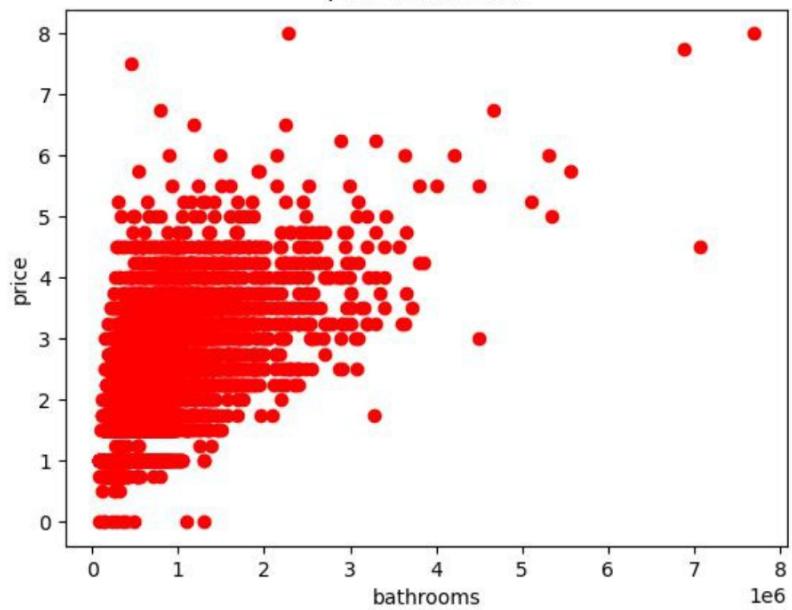
1.4.2 scatter plot

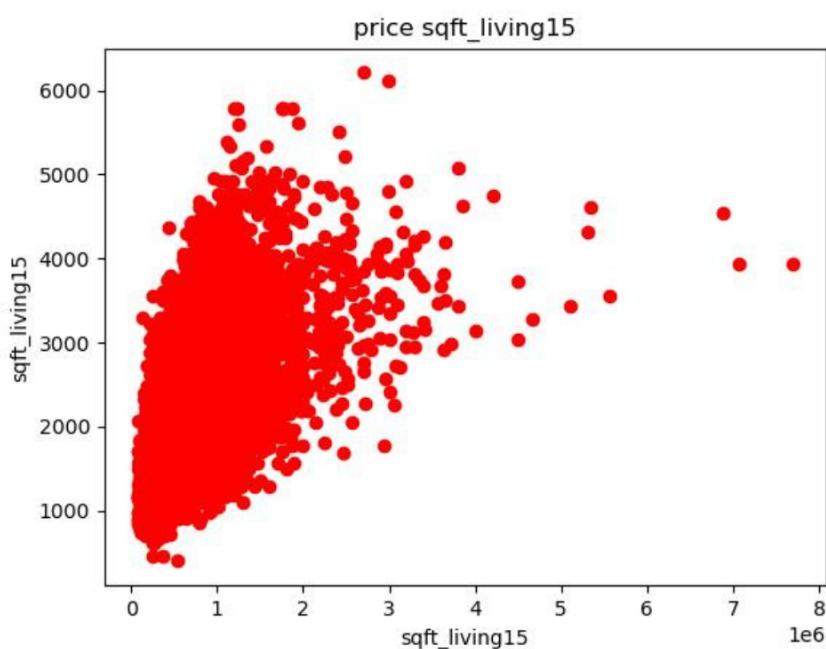
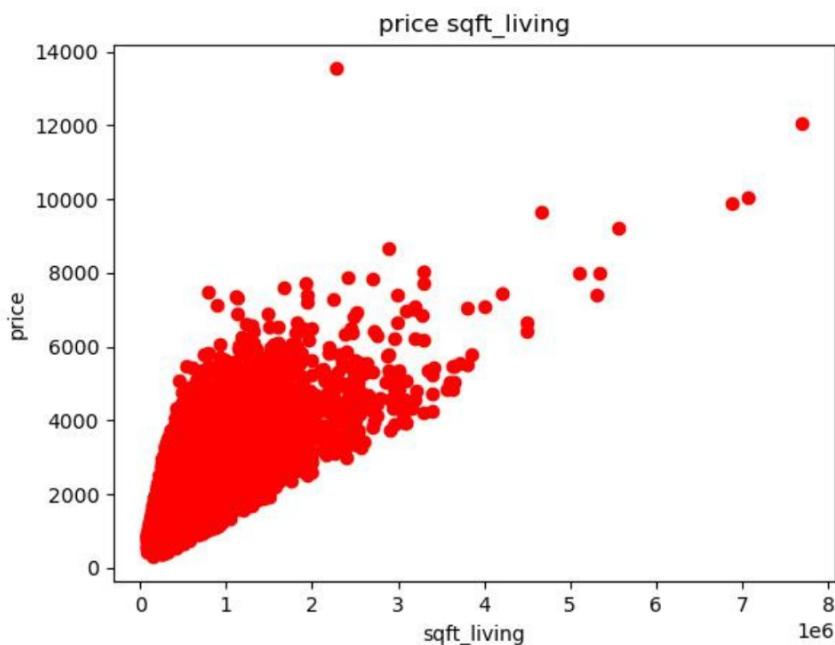
When I want show data after divided to x and y it give me error. I used some features from database like (sqft_living, sqft_lot) to draw scatter plot

price bedrooms



price bathrooms





The best model to train this database is model regression , because it can fit data and give us best solution

2. Training data

In this point we can use fit function to make

train between x_train, y_train

2.selecting model

I used linear regression but it isn't get me good results after that select

RandomForestRegressor model to predict x_test values, it is best than LinearRegression in this database because r2_score more than 40%

3. Evaluate model

The model is good but the errors rate so higher , I used scalling data to reduce performance

