

In the name of Allah most  
Gracious most merciful  
-University of Bahri  
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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 Ddata splitting

Explain in code

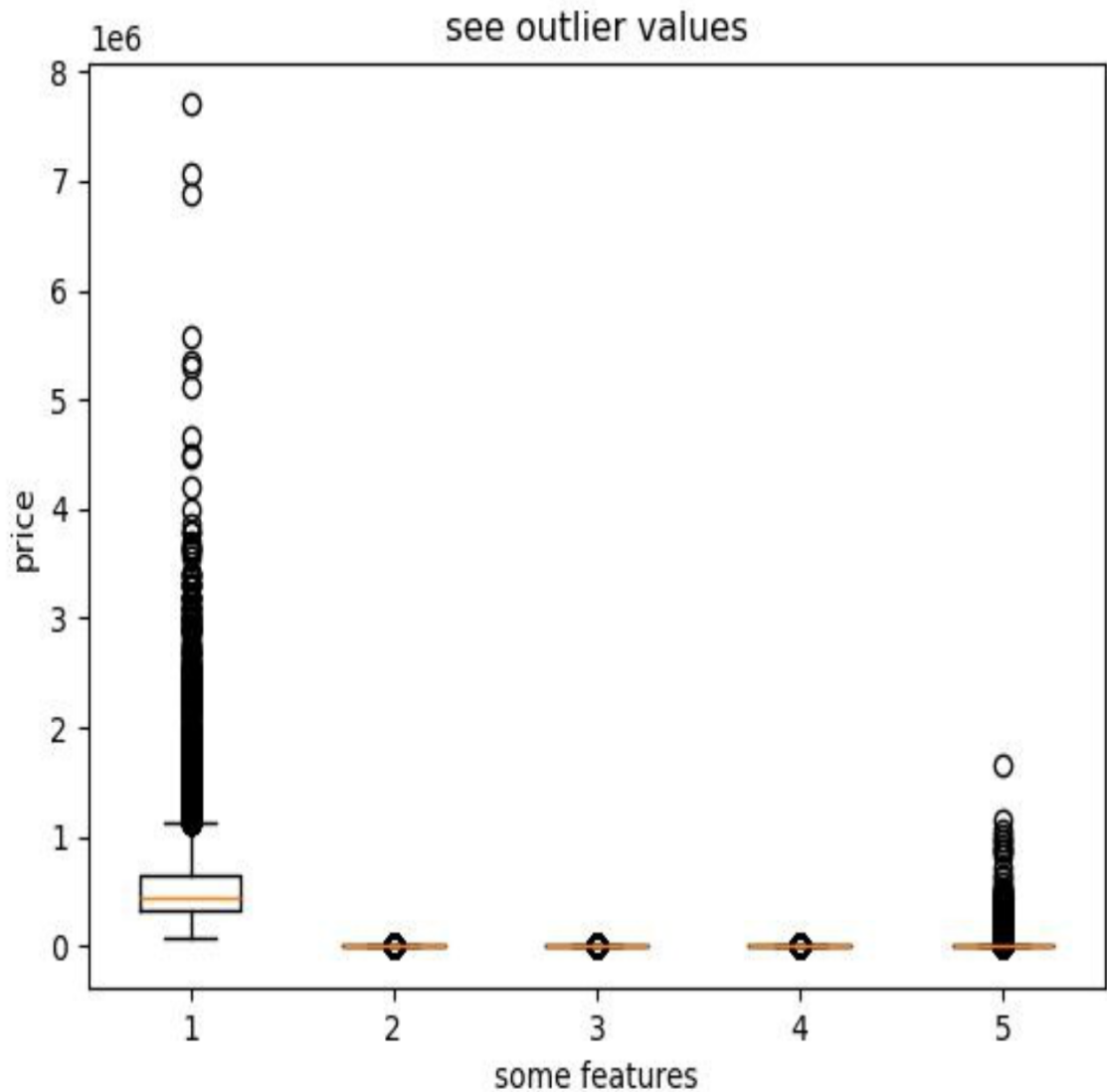
### 1. 3 Data scalling

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

### 1.4 Data visualization (matplotlib library)

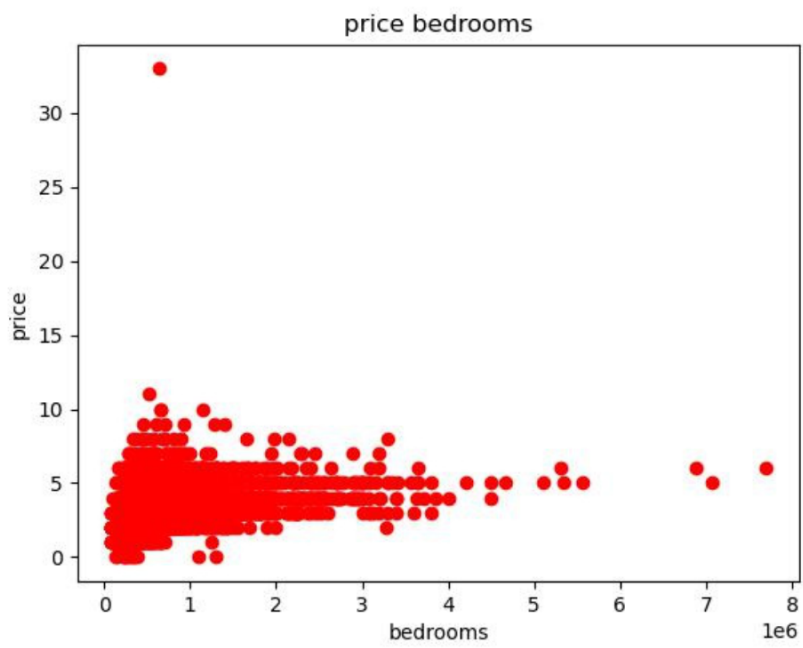
#### 1.4.1 boxplot

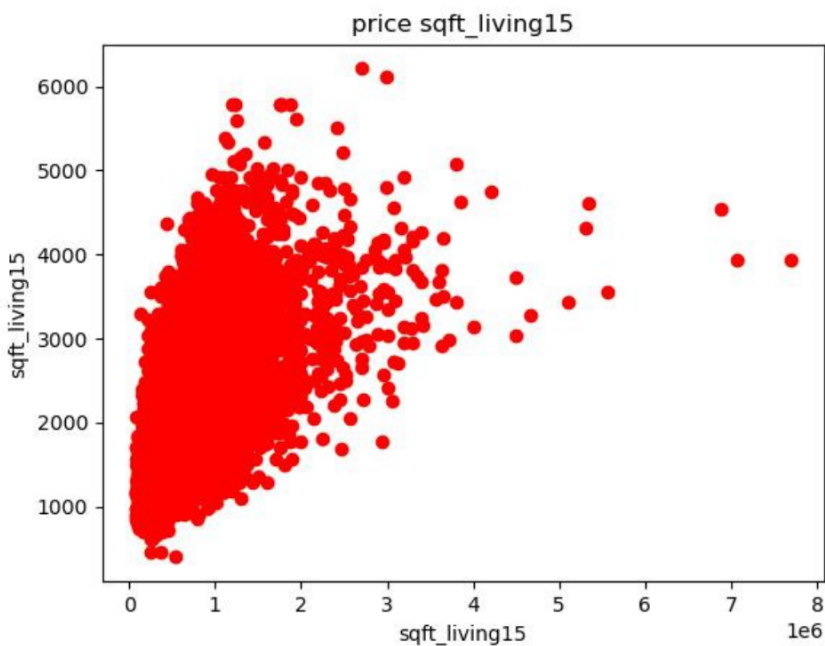
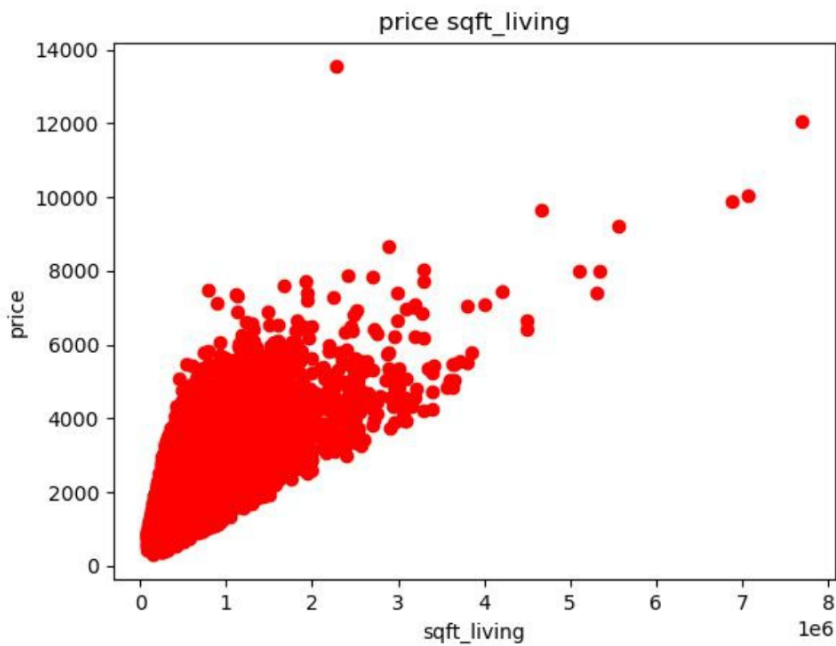
I used boxplot to see data if it has outlier or not



### 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





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 scaling data to reduce performance

