



Dataset

kc_house_data.csv

https://www.kaggle.com/shivachandel/kc-house-data

Preparing

price 0 bedrooms bathrooms 0 sqft living 0 saft lot floors waterfront view condition grade sqft basement yr built yr renovated 0 zipcode lat long sqft living15 sqft_lot15 0 dtype: int64

```
In [18]: from sklearn.model selection import train test split
In [19]: x = df.loc[:,['bedrooms','bathrooms','floors','sqft_living','zipcode','sqft_basement']]
In [20]: x.head()
Out[20]:
             bedrooms bathrooms floors sqft_living zipcode sqft_basement
                   3
                            1.0
                                1.0
                                                98178
                            2.0
                                 2.0
                                                98125
                                                               400
                                          2570
                                1.0
                                                98028
                            3.0
                                1.0
                                          1960
                                                98136
                                                               910
                            2.0
                                1.0
                                                98074
In [21]: x_train2, x_test2, y_train2, y_test2 = train_test_split(
         x, y, test_size=0.25)
In [22]: x train2.head()
```

<u>Algorithm</u>

Linear Regression

LINEAR



API

```
In [49]: # GET /calculatePrice/:bedrooms/:bathrooms/:floors/:sqft_living/:zipcode/:sqft_basement
    request = json.loads(REQUEST)
    bedrooms_var = request['path'].get('bedrooms')
    bathrooms_var = request['path'].get('bathrooms')
    floors_var = request['path'].get('floors')
    sqft_living_var = request['path'].get('sqft_living')
    zipcode_var = request['path'].get('zipcode')
    sqft_basement_var = request['path'].get('sqft_basement')

    price = linear.predict(np.array([[bedrooms_var,bathrooms_var,floors_var,sqft_living_var,zipcode_var,sqft_basement_var]]))[0][0]
    print('{"price" : "%d"}' % price)
```