

```
import pandas as pd
import numpy as np
from sklearn.linear_model import LinearRegression
import matplotlib.pyplot as plt

housedf=pd.read_csv("/content/drive/MyDrive/house(1)/
kc_house_data.csv")
```

```
housedf.head()
```

```
{"type": "dataframe", "variable_name": "housedf"}
```

```
housedf.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 21613 entries, 0 to 21612
Data columns (total 21 columns):
#   Column                Non-Null Count  Dtype
---  -
0   id                    21613 non-null  int64
1   date                 21613 non-null  object
2   price               21613 non-null  float64
3   bedrooms            21613 non-null  int64
4   bathrooms           21613 non-null  float64
5   sqft_living         21613 non-null  int64
6   sqft_lot            21613 non-null  int64
7   floors              21613 non-null  float64
8   waterfront          21613 non-null  int64
9   view                21613 non-null  int64
10  condition            21613 non-null  int64
11  grade               21613 non-null  int64
12  sqft_above          21613 non-null  int64
13  sqft_basement       21613 non-null  int64
14  yr_built            21613 non-null  int64
15  yr_renovated        21613 non-null  int64
16  zipcode             21613 non-null  int64
17  lat                 21613 non-null  float64
18  long                21613 non-null  float64
19  sqft_living15       21613 non-null  int64
20  sqft_lot15          21613 non-null  int64
dtypes: float64(5), int64(15), object(1)
memory usage: 3.5+ MB
```

```
housedf.isnull().sum()
```

```
id          0
date        0
price       0
bedrooms    0
bathrooms   0
sqft_living 0
```

```
sqft_lot      0
floors        0
waterfront    0
view          0
condition     0
grade         0
sqft_above    0
sqft_basement 0
yr_built      0
yr_renovated  0
zipcode       0
lat           0
long          0
sqft_living15 0
sqft_lot15    0
dtype: int64
```

```
inp=housedf[["bedrooms","waterfront","floors"]]
out=housedf["price"]
```

```
LR=LinearRegression()
```

```
Train_data=pd.concat([inp,out],axis=1)
train=Train_data.dropna()
```

```
inp1=train[["bedrooms","waterfront","floors"]]
out1=train["price"]
```

```
LR.fit(inp1,out1)
```

```
LinearRegression()
```

```
LR.predict([[3,4,5]])
```

```
/usr/local/lib/python3.12/dist-packages/sklearn/utils/
validation.py:2739: UserWarning: X does not have valid feature names,
but LinearRegression was fitted with feature names
  warnings.warn(
```

```
array([5444354.58189332])
```