




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

```
df=pd.read_csv("/content/Homes.csv")
```

df



	area	bedrooms	price
0	2600	3.0	550000
1	3000	2.0	565000
2	3200	NaN	610000
3	3600	4.0	680000
4	4000	3.0	725000



Next steps:

[Generate code with df](#)[View recommended plots](#)[New interactive sheet](#)

```
df.bedrooms.median()
```




3.0

```
import math
median_br=math.floor(df.bedrooms.median())
median_br
```



3


```
df.bedrooms.fillna(median_br)
```





	bedrooms
0	3.0
1	2.0
2	3.0
3	4.0
4	3.0

dtype: float64

```
df.bedrooms=df.bedrooms.fillna(median_br)
df
```




	area	bedrooms	price
0	2600	3.0	550000
1	3000	2.0	565000
2	3200	3.0	610000
3	3600	4.0	680000
4	4000	3.0	725000



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```
reg=linear_model.LinearRegression()
reg.fit(df[['area', 'bedrooms']], df.price)
```



▼ LinearRegression ⓘ ?


LinearRegression()

```
reg.intercept_
```




```
np.float64(154554.65587044525)
```

```
reg.coef_
```




```
array([ 125.60728745, 19817.81376518])
```

```
reg.predict([[3000,3]])
```



```
/usr/local/lib/python3.12/dist-packages/sklearn/utils/validation.py:2739: UserWarning:
array([590829.95951417])
```

```
125.60728745*3000+19817.81376518+154554.65587044525
```



```
551194.3319856252
```

