

area price prediction

June 4, 2022

```
[2]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn import linear_model
```

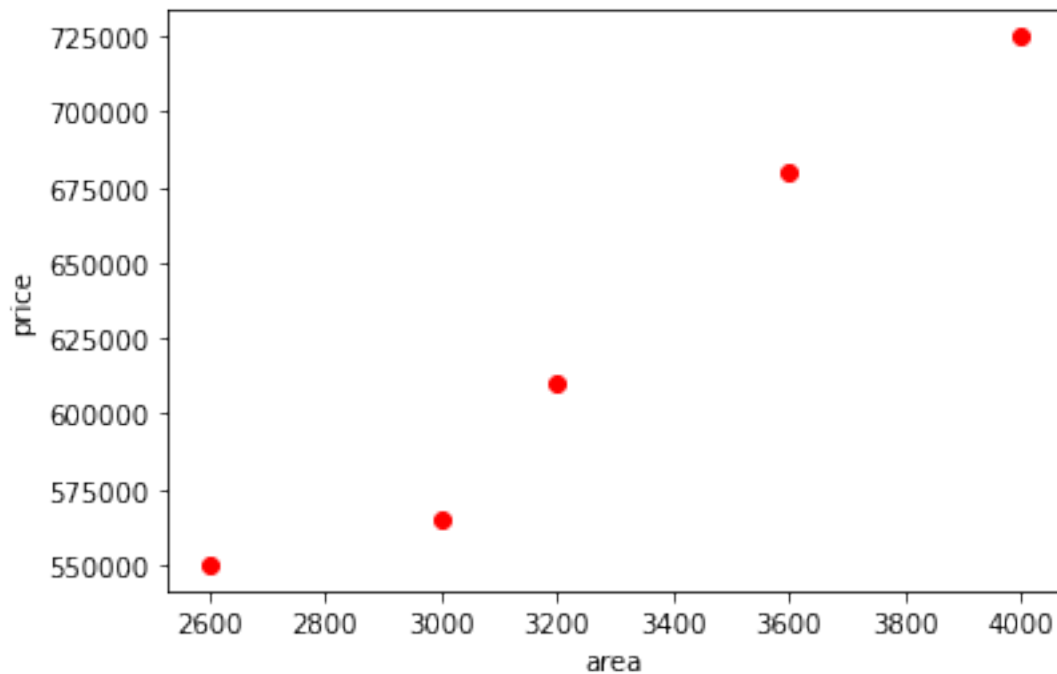
```
[5]: df=pd.read_csv('area.csv')
df
```

```
[5]:   area  price
0  2600  550000
1  3000  565000
2  3200  610000
3  3600  680000
4  4000  725000
```

```
[3]: %matplotlib inline
```

```
[6]: plt.xlabel('area')
plt.ylabel('price')
plt.scatter(df.area,df.price,color="red")
```

```
[6]: <matplotlib.collections.PathCollection at 0x2755f387d30>
```



```
[7]: new_df = df.drop('price',axis='columns')
new_df
```

```
[7]:   area
0  2600
1  3000
2  3200
3  3600
4  4000
```

```
[8]: price = df.price
price
```

```
[8]: 0    550000
1    565000
2    610000
3    680000
4    725000
Name: price, dtype: int64
```

```
[9]: reg=linear_model.LinearRegression()
reg.fit(new_df,price)
```

```
[9]: LinearRegression()
```

```
[10]: reg.predict([[3300]])
```

```
[10]: array([628715.75342466])
```

```
[11]: d=pd.read_csv('areaprediction.csv')
```

```
[12]: d.head()
```

```
[12]:    area  
0  1000  
1  1500  
2  2300  
3  3540  
4  4120
```

```
[13]: p=reg.predict(d)  
p
```

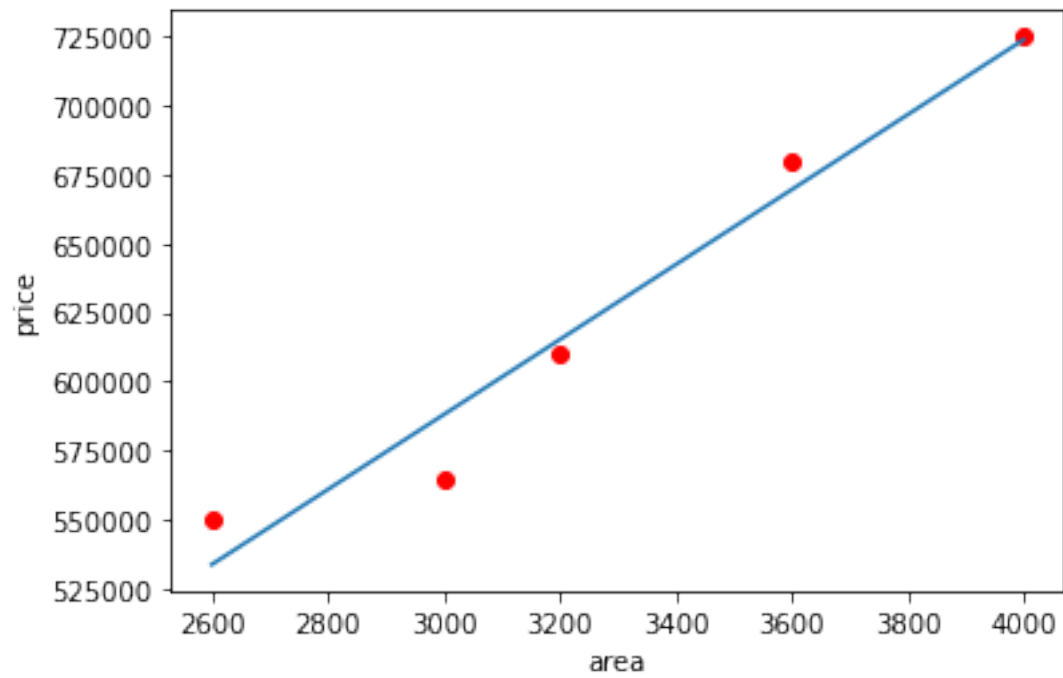
```
[13]: array([ 316404.10958904,  384297.94520548,  492928.08219178,  
          661304.79452055,  740061.64383562,  799808.21917808,  
          926090.75342466,  650441.78082192,  825607.87671233,  
          492928.08219178, 1402705.47945205, 1348390.4109589 ,  
          1144708.90410959])
```

```
[14]: d['price predicted']=p
```

```
[15]: d.to_csv('prediction.csv')
```

```
[17]: plt.xlabel('area')  
plt.ylabel('price')  
plt.scatter(df.area,df.price,color="red")  
plt.plot(df.area,reg.predict(df[['area']]))
```

```
[17]: [<matplotlib.lines.Line2D at 0x2755fb32640>]
```



[]:

[]: