

```
In [ ]: import pandas as pd
dataset=pd.read_csv("house_price_regression_dataset.csv")
dataset
```

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In [ ]: dataset.tail(20)
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In [ ]: dataset.isnull().any()
```

```
In [ ]: dataset.shape
```

```
In [ ]: dataset.describe()
```

```
In [ ]: dataset.info()
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In [ ]: x=dataset.iloc[:, :3].values
x
```

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In [ ]: y=dataset.House_Price
y
```

```
In [ ]: import matplotlib.pyplot as plt
import seaborn as sns
plt.figure(figsize=(15,5))
sns.set_style("dark")
sns.scatterplot(x="Square_Footage",y="House_Price",data=dataset,color="red")
plt.xlabel("AREA")
plt.ylabel("PRICE")
plt.show()
```

```
In [ ]: x.shape,y.shape
```

```
In [ ]: from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.20,random_state=0)
```

```
In [ ]: from sklearn.preprocessing import StandardScaler
sc=StandardScaler()
x_train=sc.fit_transform(x_train)
x_test=sc.transform(x_test)
```

```
In [ ]: from sklearn.linear_model import LinearRegression
model=LinearRegression()
model.fit(x_train,y_train)
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In [ ]: y_pred=model.predict(x_test)
```

```
In [ ]: y_pred=model.predict(x_test)
from sklearn.metrics import r2_score
score=r2_score(y_pred,y_test)
score
```

```
In [ ]: from sklearn.metrics import mean_squared_error
result= mean_squared_error(y_pred,y_test)
print("MSE:",result)
```

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In [ ]: x=[[1414,5,1
]]
result=model.predict(x)
print(result)
```

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In [ ]:
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