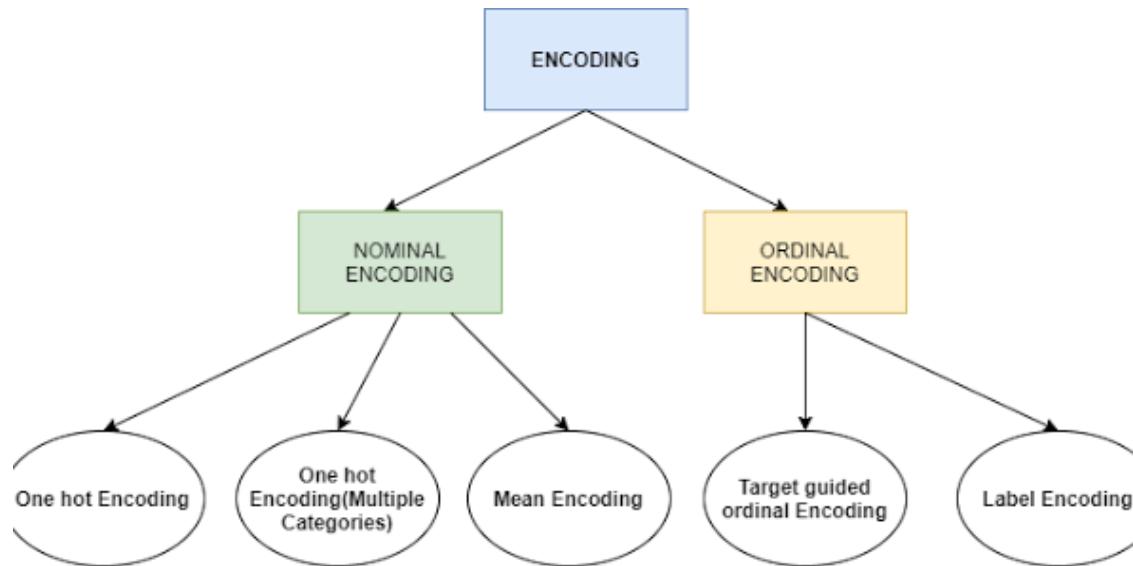


onehot

February 9, 2026



[1]: `import pandas as pd`

[]:

[2]: `df=pd.read_csv("home_prices.csv")`

[3]: `df`

[3]:

	locality	area_sqr_ft	price_lakhs	bedrooms
0	Kollur	656	39.0	2
1	Kollur	1260	83.2	2
2	Kollur	1057	86.6	3
3	Kollur	1259	59.0	2
4	Kollur	1800	140.0	3
5	Kollur	1325	80.1	2
6	Kollur	1085	116.0	3
7	Kollur	1110	45.0	2
8	Kollur	1700	100.0	3
9	Banjara Hills	1650	200.0	3
10	Banjara Hills	2438	316.0	3
11	Banjara Hills	2115	220.0	2

```

12 Banjara Hills      1600    150.0      3
13 Banjara Hills      2400    300.0      3
14 Banjara Hills      1100     85.0       2
15 Banjara Hills      2600    400.0      3
16 Mankhal            1100     54.0       2
17 Mankhal            1125     64.0       2
18 Mankhal            1008     50.0       2
19 Mankhal            1266     78.0       2
20 Mankhal            1540     94.0       3
21 Mankhal            1200     85.0       3

```

```
[4]: pd.get_dummies(df,columns=["locality"])
```

```

[4]:   area_sqr_ft  price_lakhs  bedrooms  locality_Banjara Hills  \
0          656        39.0       2           False
1         1260        83.2       2           False
2         1057        86.6       3           False
3         1259        59.0       2           False
4         1800       140.0       3           False
5         1325        80.1       2           False
6         1085       116.0       3           False
7         1110        45.0       2           False
8         1700       100.0       3           False
9         1650       200.0       3           True
10        2438       316.0       3           True
11        2115       220.0       2           True
12        1600       150.0       3           True
13        2400       300.0       3           True
14        1100        85.0       2           True
15        2600       400.0       3           True
16        1100        54.0       2           False
17        1125        64.0       2           False
18        1008        50.0       2           False
19        1266        78.0       2           False
20        1540        94.0       3           False
21        1200        85.0       3           False

locality_Kollur  locality_Mankhal
0             True        False
1             True        False
2             True        False
3             True        False
4             True        False
5             True        False
6             True        False
7             True        False
8             True        False

```

```
9          False      False
10         False      False
11         False      False
12         False      False
13         False      False
14         False      False
15         False      False
16         False      True
17         False      True
18         False      True
19         False      True
20         False      True
21         False      True
```

```
[5]: df_encoded=pd.get_dummies(df,columns=["locality"],drop_first=True)
```

```
[6]: df_encoded
```

```
[6]:   area_sqr_ft  price_lakhs  bedrooms  locality_Kollur  locality_Mankhal
0        656        39.0       2           True            False
1       1260        83.2       2           True            False
2       1057        86.6       3           True            False
3       1259        59.0       2           True            False
4       1800       140.0       3           True            False
5       1325        80.1       2           True            False
6       1085       116.0       3           True            False
7       1110        45.0       2           True            False
8       1700       100.0       3           True            False
9       1650       200.0       3           False           False
10      2438       316.0       3           False           False
11      2115       220.0       2           False           False
12      1600       150.0       3           False           False
13      2400       300.0       3           False           False
14      1100        85.0       2           False           False
15      2600       400.0       3           False           False
16      1100        54.0       2           False           True
17      1125        64.0       2           False           True
18      1008        50.0       2           False           True
19      1266        78.0       2           False           True
20      1540        94.0       3           False           True
21      1200        85.0       3           False           True
```

```
[7]: from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
```

```
[8]: X=df_encoded.drop("price_lakhs",axis=1)
y= df_encoded["price_lakhs"]
```

```
[9]: # train-test-split
X_train,X_test,y_train,y_test= train_test_split(X,y,test_size=0.
    ↪2,random_state=42)
model=LinearRegression()
model.fit(X_train,y_train)
```

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

```
[14]: model.score(X_test,y_test)
```

```
[14]: 0.855890526315538
```

```
[10]: test = pd.DataFrame([
    {'area_sqr_ft': 1600, "bedrooms": 2, "locality_Kollur": False, ↪
    ↪"locality_Mankhal": False},
    {'area_sqr_ft': 1600, "bedrooms": 2, "locality_Kollur": False, ↪
    ↪"locality_Mankhal": True},
])
model.predict(test)
```

```
[10]: array([157.03383393, 109.25104283])
```

```
[ ]:
```