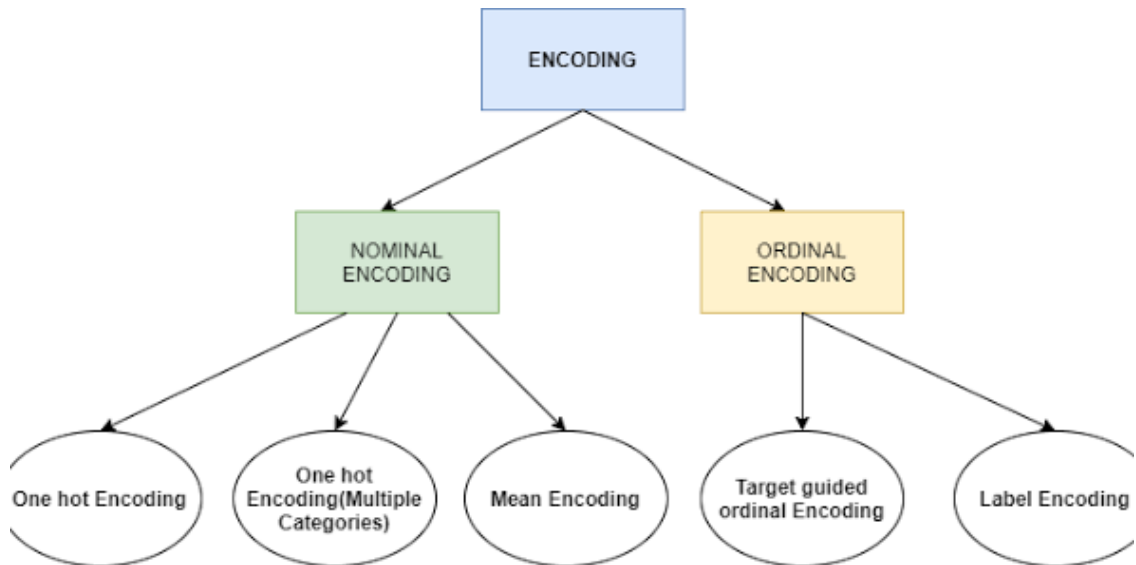


# onehot

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])
```

```
[ ]:
```