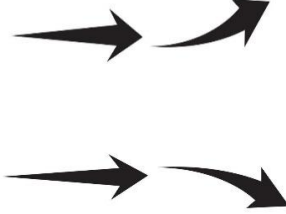


Data Preprocessing

Handling missing values

- Mean Basic
 - Mode
 - Median
 - Fixed Advanced
 - Drop
 - Encoding
 - Scaling
- 

Encoding

Transferring data from one type to another

1. One-hot

2. Label

Categorical-> Numerical

- Types
 - One-Hot
 - Label Encoding
 - Frequency encoding
 - Target Encoding

- Ordinal Encoding

One hot -Encoding

Labels		Sunny	Rain	Wind
Sunny		1	0	0
Rain		0	1	0
Wind		0	0	1

1 means yes it is sunny, rain or wind

0 means no it is not

Label encoding

Label Encoding : Label encoding converts 'red', 'green', 'blue' to '0', '1', '2'.

Notice that it uses only one column.

Color	Encoded_Value
Red	0
Green	1
Blue	2

Differences

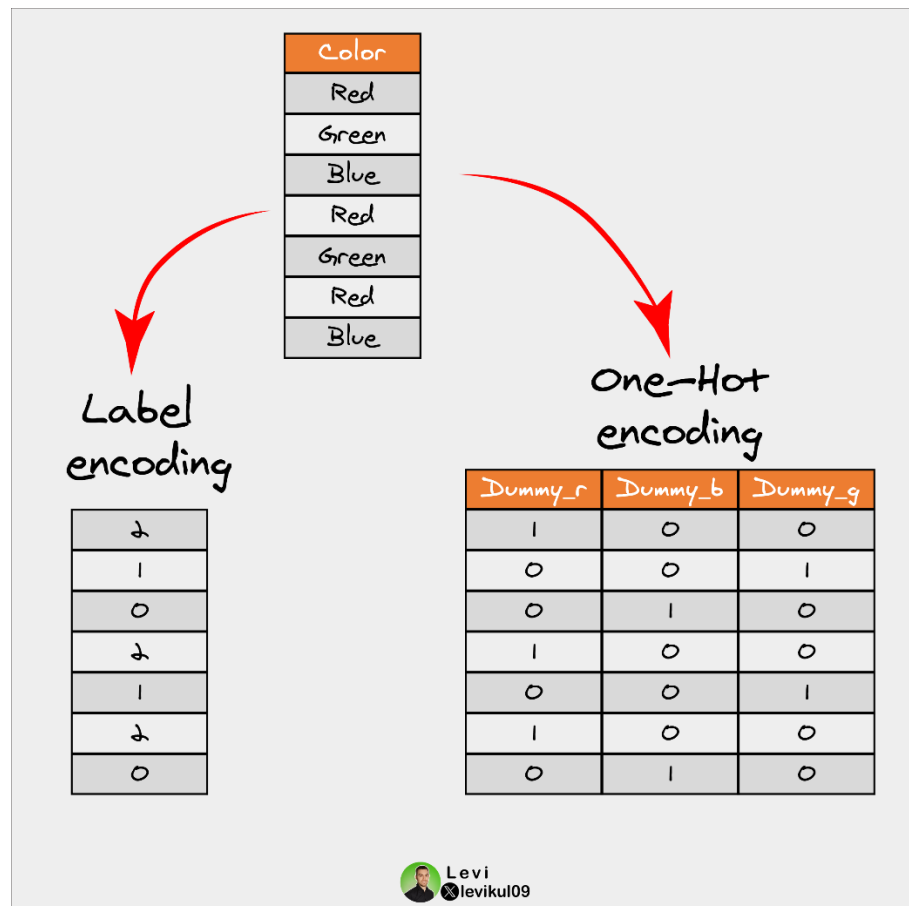
Label Encoding

Food Name	Categorical #	Calories
Apple	1	95
Chicken	2	231
Broccoli	3	50

One Hot Encoding

Apple	Chicken	Broccoli	Calories
1	0	0	95
0	1	0	231
0	0	1	50





For Loop

Used to automate the process