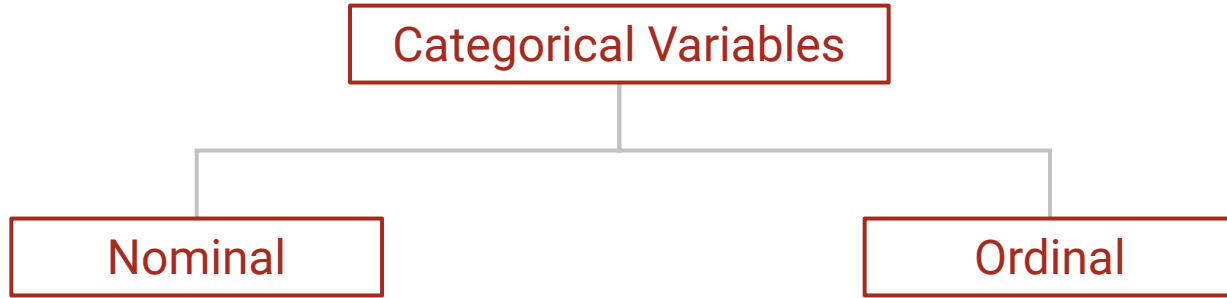


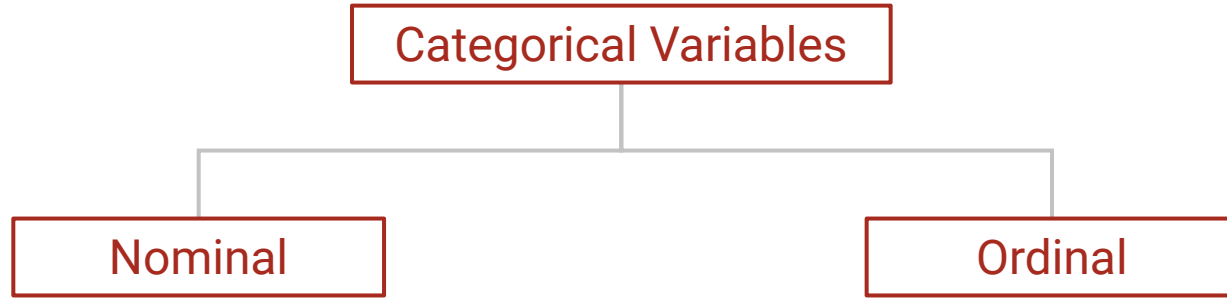
# Dealing with Categories/Strings

# Preprocess Categorical Variables

# Categorical Variables

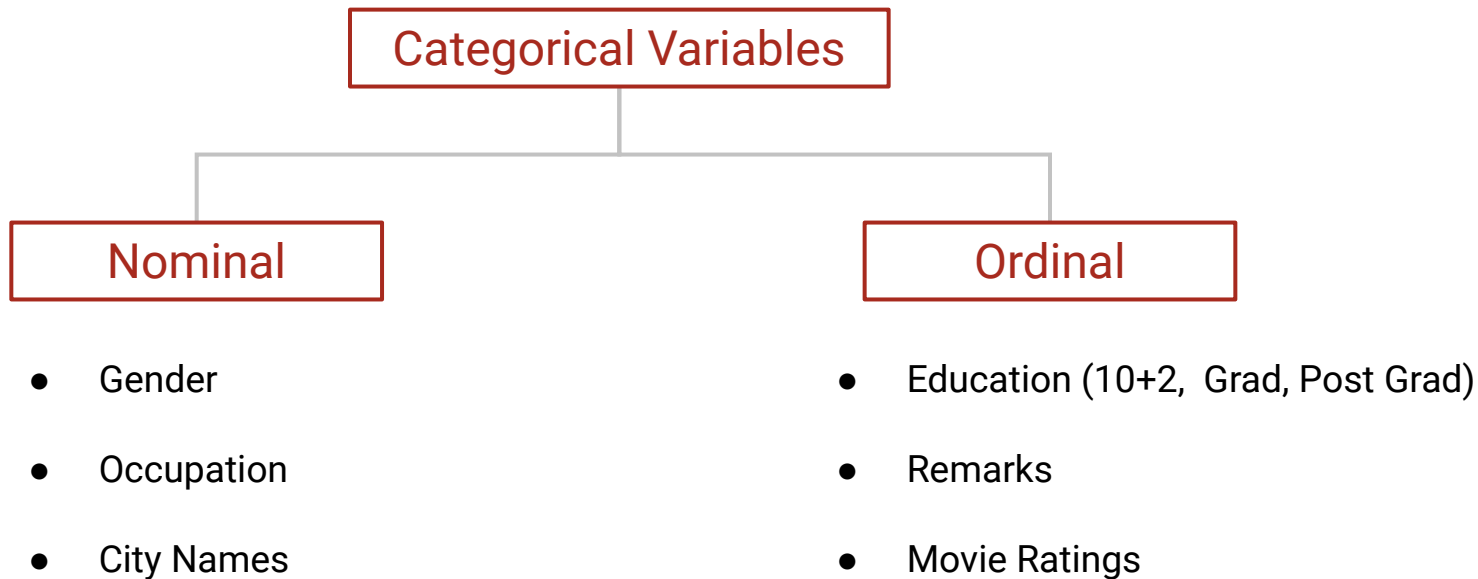


# Categorical Variables



- Gender
- Occupation
- City Names

# Categorical Variables



# Preprocess Categorical Variables

# Preprocess Categorical Variables

ID	Gender
1	Male
2	Male
3	Female
4	Male

# Preprocess Categorical Variables

ID	Gender
1	Male
2	Male
3	Female
4	Male

Nominal Variable



# Preprocess Categorical Variables

ID	Gender	Male	Female
1	Male	1	0
2	Male	1	0
3	Female	0	1
4	Male	1	0

Nominal Variable

# Preprocess Categorical Variables

ID	Gender	Male	Female
1	Male	1	0
2	Male	1	0
3	Female	0	1
4	Male	1	0

# Preprocess Categorical Variables

ID	Gender	Male	Female
1	Male	1	0
2	Male	1	0
3	Female	0	1
4	Male	1	0

ID	Size
1	S
2	M
3	L
4	S

# Preprocess Categorical Variables

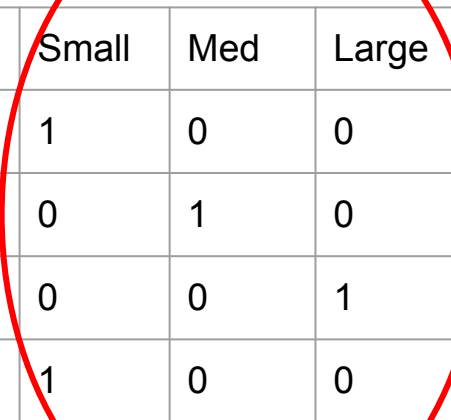
ID	Gender	Male	Female
1	Male	1	0
2	Male	1	0
3	Female	0	1
4	Male	1	0

ID	Size	Small	Med	Large
1	S	1	0	0
2	M	0	1	0
3	L	0	0	1
4	S	1	0	0

# Preprocess Categorical Variables

ID	Gender	Male	Female
1	Male	1	0
2	Male	1	0
3	Female	0	1
4	Male	1	0

ID	Size	Small	Med	Large
1	S	1	0	0
2	M	0	1	0
3	L	0	0	1
4	S	1	0	0



# Preprocess Categorical Variables

ID	Size
1	S
2	M
3	L
4	S

Label Encoding



ID	Size
1	0
2	1
3	2
4	0

# Preprocess Categorical Variables

ID	Size
1	S
2	M
3	XXL
4	S

Label Encoding



ID	Size
1	0
2	1
3	4
4	0

# Preprocess Categorical Variables

Notebook



Thank You