



Categorical Encoding



Categorical encoding - definition

Categorical encoding refers to replacing the category strings by a numerical representation.



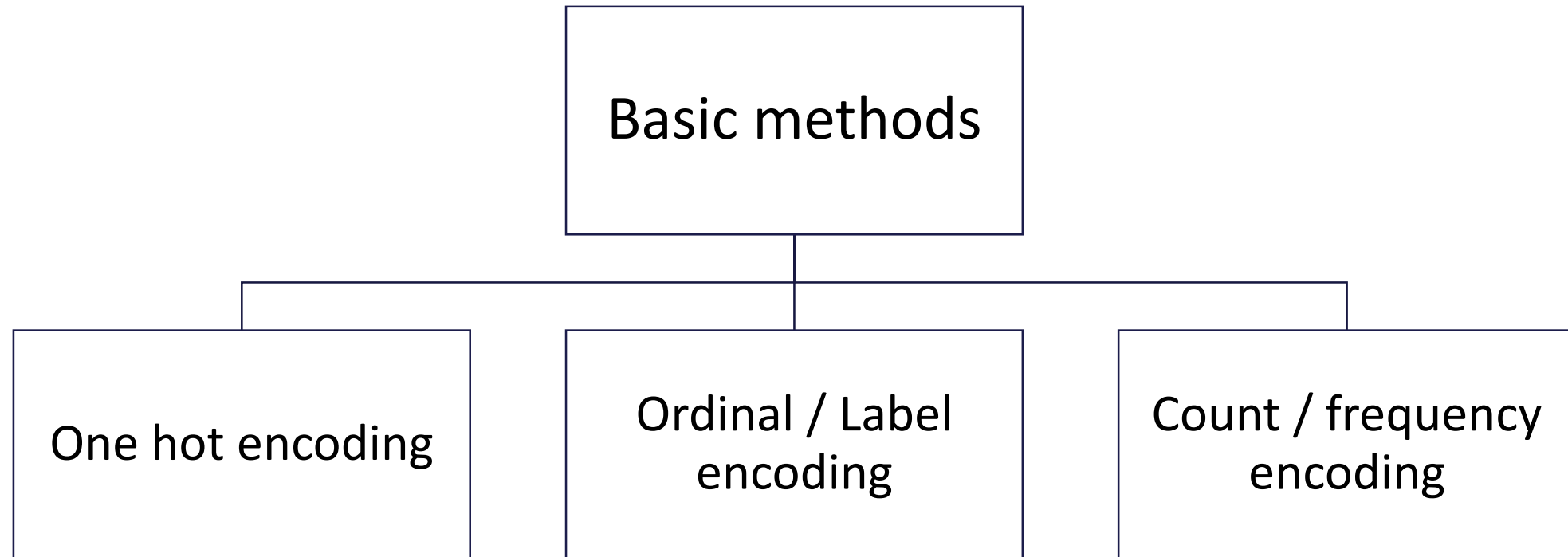


Categorical encoding - goal

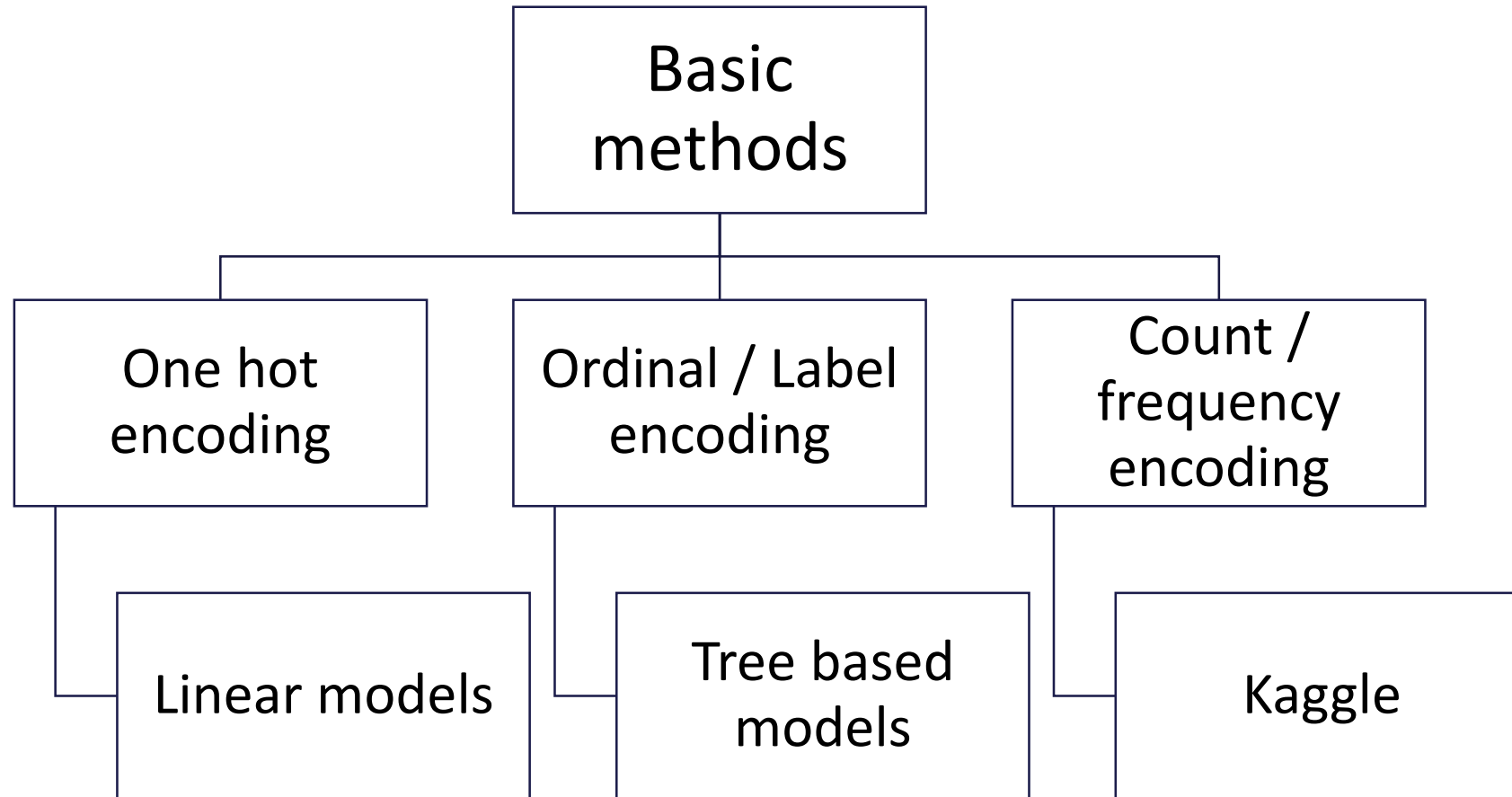
- To produce variables that can be used to train machine learning models.
- To build predictive features from categories.



Basic categorical encoding methods



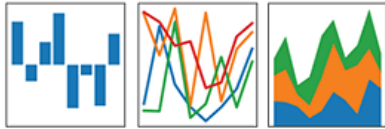
Basic categorical encoding methods



Categorical encoding in Python

pandas

$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



Feature-Engine

🏠 Category Encoders

Objectives

- Learn multiple techniques
- Understand their impact on the variable and the machine learning model
- Learn how to implement it with pandas, Scikit-learn, Feature-Engine, and Category encoders

Content



- Presentation and video
 - Explanation of the technique
- Accompanying Jupyter notebook
 - Implementation in pandas
 - Implementation in Scikit-learn
 - Implementation in Feature-engine
 - Implementation in Category encoders

THANK YOU

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