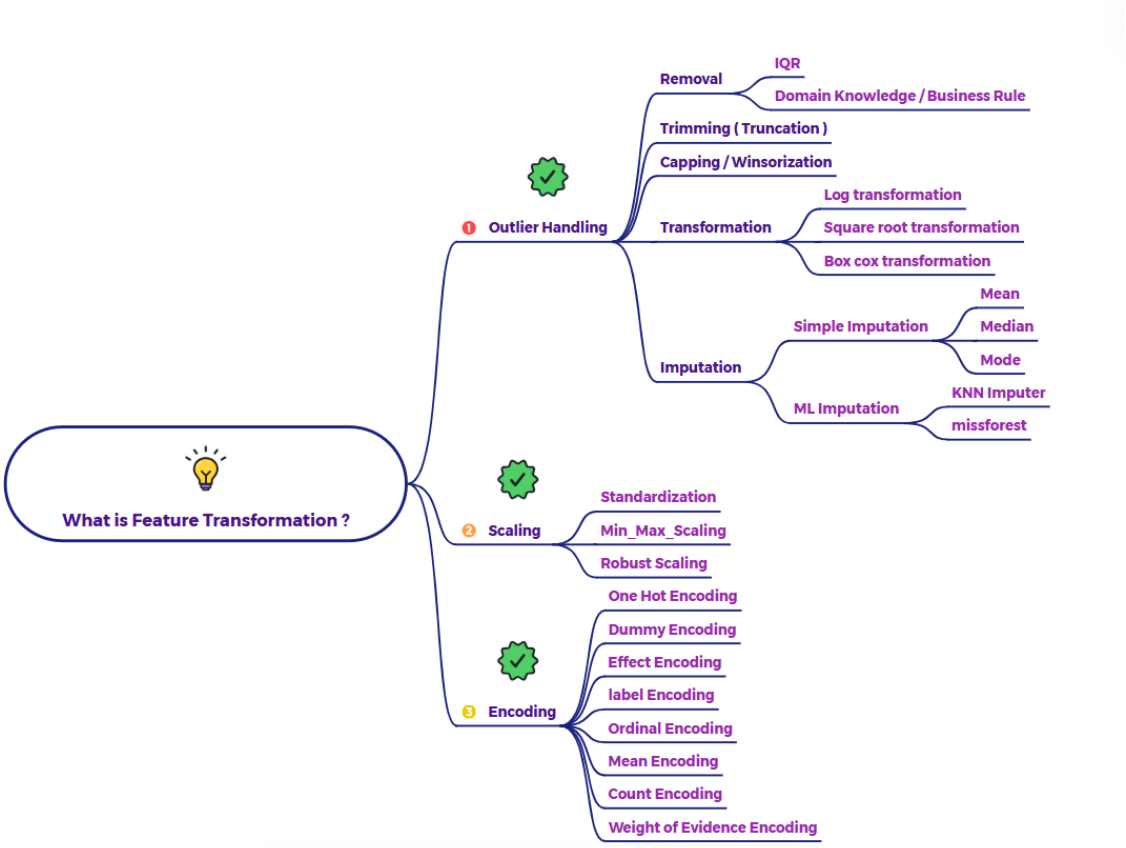
## What is Feature transformation?




**Feature transformation** is the process of converting existing data features into a format that is more suitable for a machine learning model. It is a key part of feature engineering and involves techniques to handle outliers, scale data, and encode categorical variables.

Based on the provided information, the main parts of feature transformation include:

- **Outlier Handling**: This involves addressing data points that are significantly different from other observations. Techniques include removal, trimming, capping, and various transformations like log or square root transformation.
- **Scaling**: This process normalizes the range of features. Common methods include Standardization and Min-Max Scaling.
- **Encoding**: This converts categorical data into a numerical format that a model can process. Examples include One Hot Encoding, Label Encoding, and Ordinal Encoding.