What is Multivariate analysis?

Exploratory Data Analysis

1 Univariate Analysis
- Quantitative Analysis
  - Numerical features
  - Categorical features
  - Text features
  - Temporal features
- Data visualization
  - Numerical features
  - Categorical features
  - Text features
  - Temporal features

2 Bivariate Analysis
- Quantitative Analysis
  - Example of Numerical vs Numerical
  - Example of Numerical vs Categorical
  - Example of Categorical vs Categorical
- Data Visualization
  - Numerical vs Numerical
  - Numerical vs Categorical
  - Categorical vs Categorical
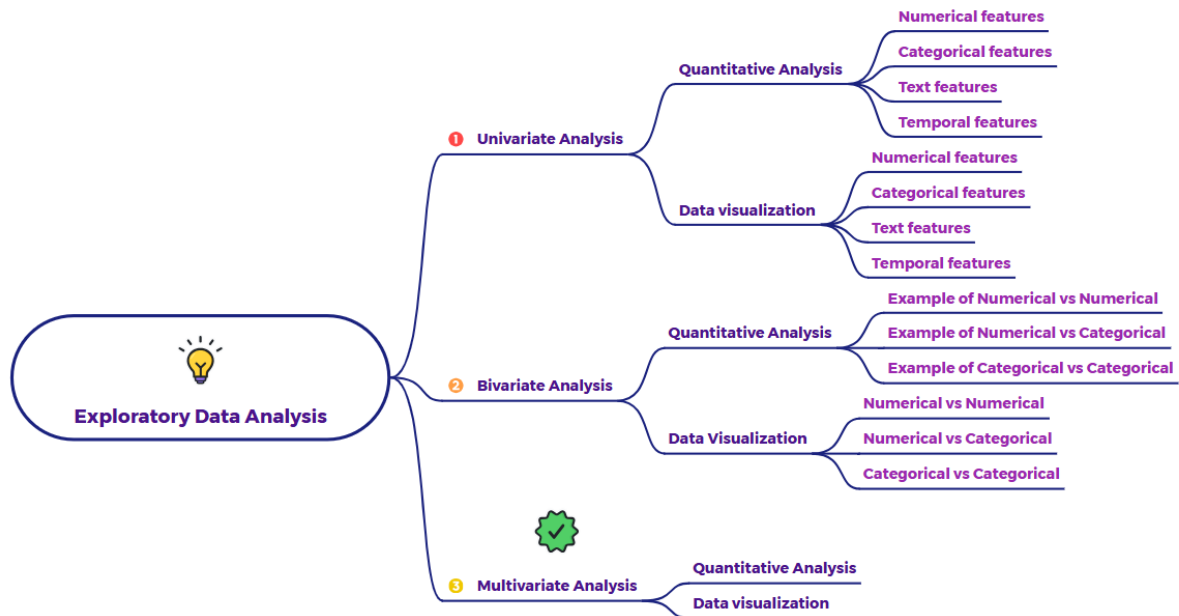
3 Multivariate Analysis
- Quantitative Analysis
- Data visualization

Multivariate analysis explores the relationships among **three or more** variables simultaneously. Unlike univariate (one variable) and bivariate (two variables) analysis, it aims to understand the complex interplay and dependencies within a dataset containing multiple features. The specific techniques used depend on the types of variables involved (numerical, categorical, or a mix) and the research questions being addressed.