What is EDA?

Exploratory Data Analysis

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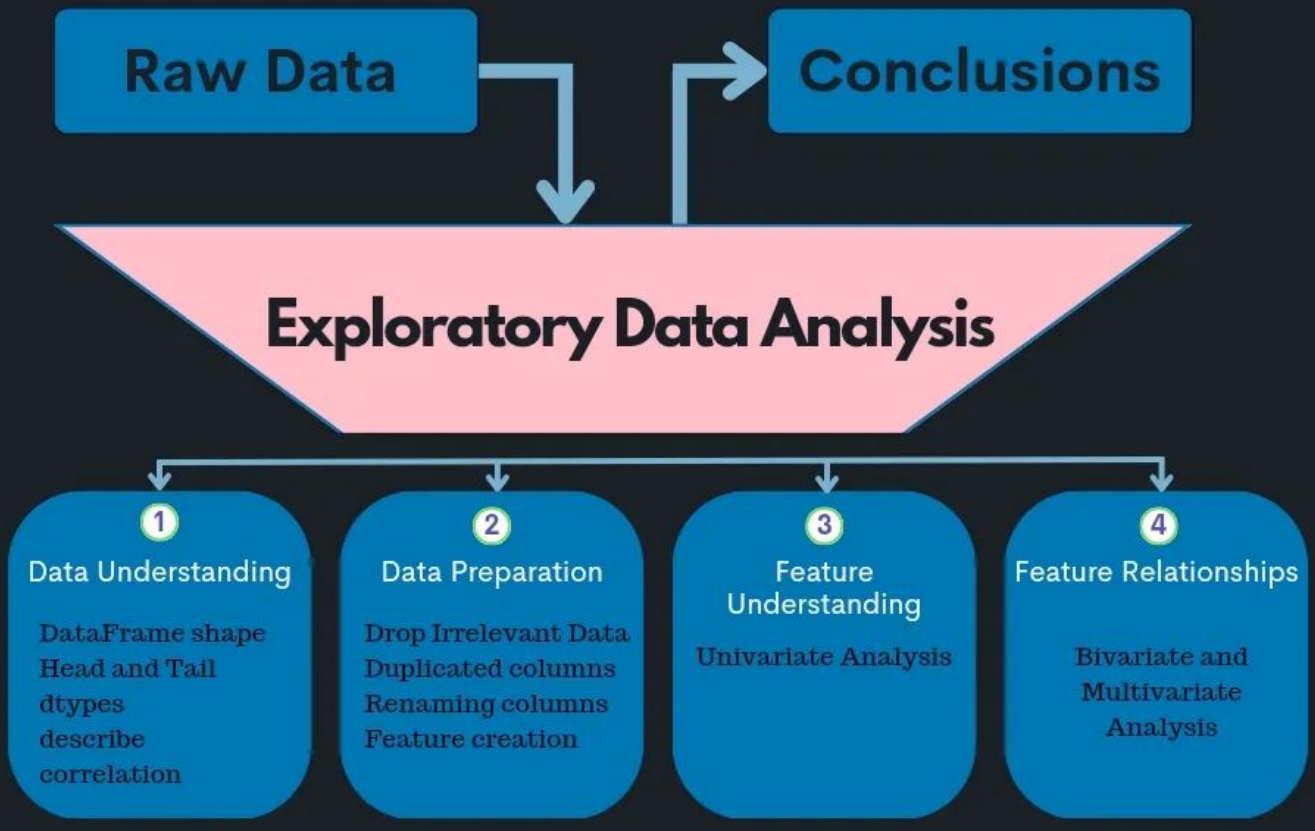
Exploratory Data Analysis is a data analytics process to understand the data in depth and learn the different data characteristics, often with visual means.

It is used to discover trends, patterns, or to check assumptions, gather insights and make better sense of the data, and removes irregularities and unnecessary values from data.

Objective of Exploratory Data Analysis:

- Identifying and removing data outliers
- Identifying trends in time and space
- Uncover patterns related to the target
- Creating hypotheses and testing them through experiments
- Identifying new sources of data.

Steps Involved in Exploratory Data Analysis (EDA):



Types of Exploratory Data Analysis

Univariate Analysis:

In univariate analysis, the output is a single variable and all data collected is for it. There is no cause-and-effect relationship at all.

Bivariate Analysis:

In bivariate analysis, the outcome is dependent on two variables, while the relation with it is compared with two variables,

Multivariate Analysis:

In multivariate analysis, the outcome is more than two. The analysis of data is done on variables that can be numerical or categorical. The result of the analysis can be represented in numerical values, visualization, or graphical form.