Introduction to Data Analysis

Data analysis is the process of inspecting, cleaning, and modeling data with the goal of discovering useful information and supporting decision-making. It involves applying statistical and logical techniques to evaluate data. The process helps organizations understand patterns and trends in their datasets. Data analysis is widely used in business, science, and technology.

Types of Data Analysis

- 1. Descriptive Analysis: Summarizes raw data into a readable form.
- 2. Diagnostic Analysis: Explains why something happened by examining data.
- 3. Predictive Analysis: Uses data to make predictions about future outcomes.
- 4. Prescriptive Analysis: Suggests actions to take based on predictions.

Together, these approaches make data analysis a powerful decision-making tool.