

The Fascinating World of Data Analysis

An exploration of the different types of data analysis and their importance in today's data-driven world

Data Analysis Overview

- Data analysis is a journey of discovery, insight, and decision making
- It involves inspecting, cleaning, transforming, and modeling data
- The goal is to discover useful information, inform conclusions, and support decision making



Types of Data Analysis

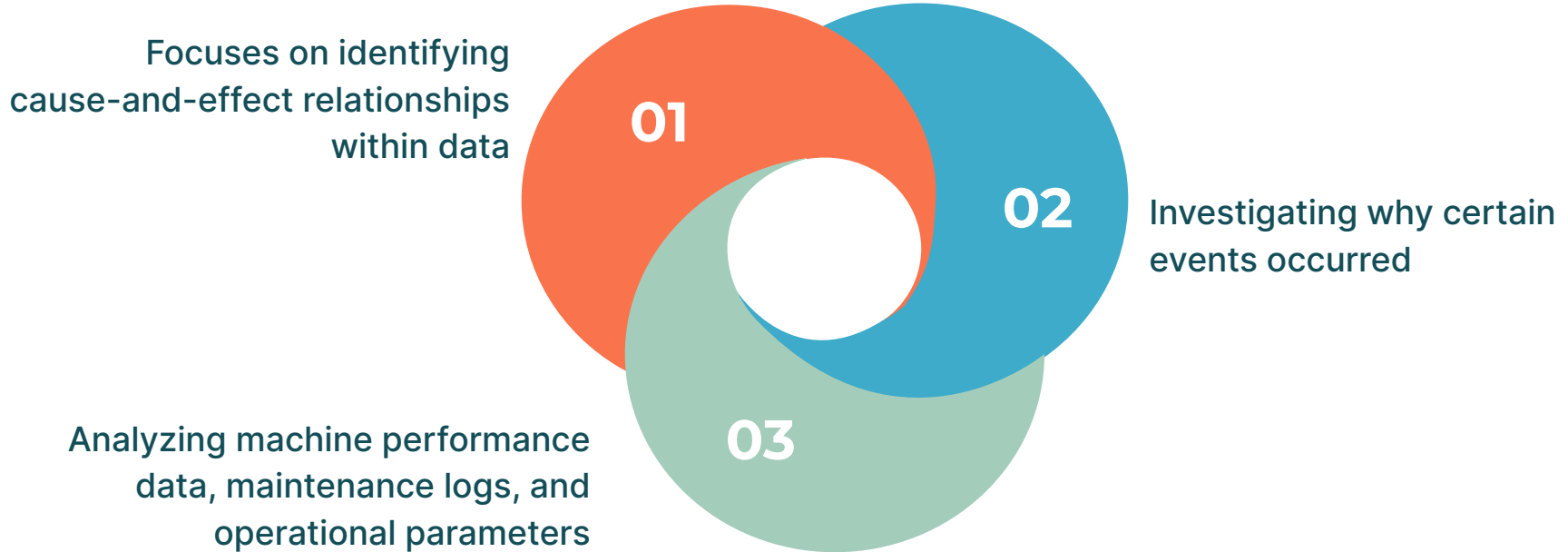


Descriptive Analysis

- 01 Visualizing data through histograms or pie charts
- 02 Involves summarizing and presenting data to understand its basic characteristics
- 03 Calculating mean, median, mode, standard deviation, and distribution



Diagnostic Analysis





Predictive Analysis

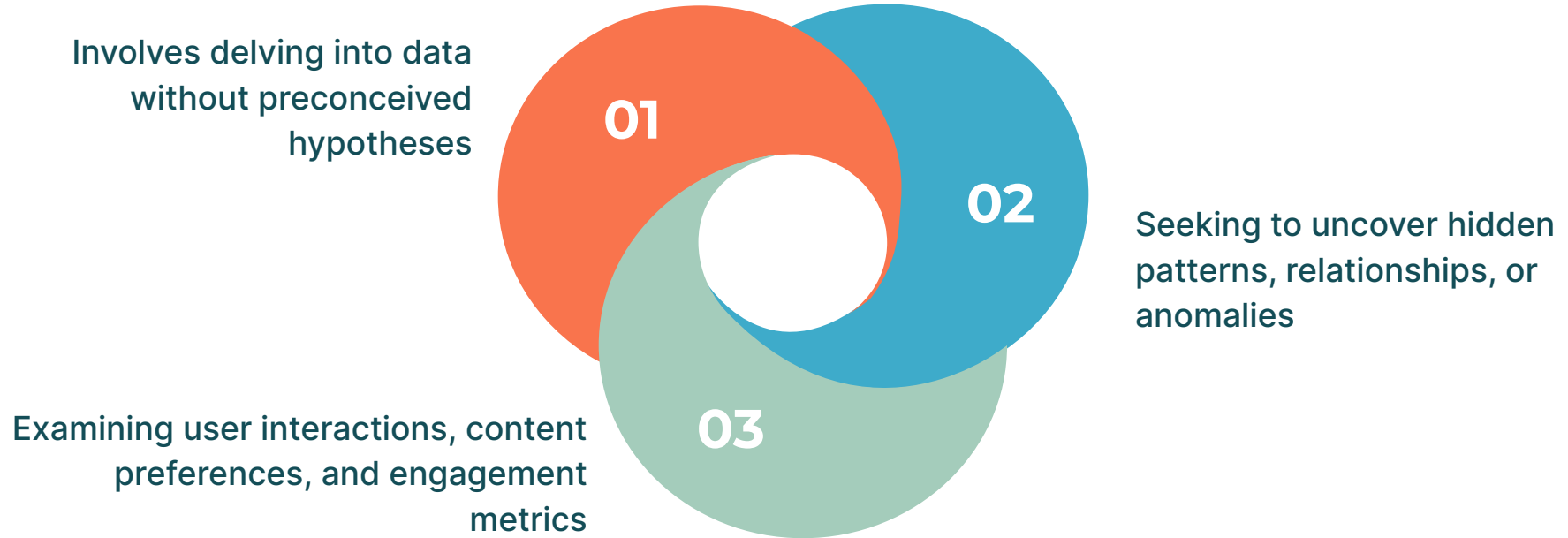
- Involves forecasting future outcomes based on historical data
- Anticipating trends, patterns, and probabilities
- Analyzing customer demographics, purchase history, and engagement metrics

Prescriptive Analysis

- 01** Analyzing factors like transportation routes, vehicle capacities, and delivery schedules
- 02** Not only forecasts outcomes but also recommends the best actions to achieve desired results
- 03** Suggests the best course of action to optimize outcomes



Exploratory Analysis



Conclusion

- 01** Remember, it's not just about the data—it's about the stories it tells and the decisions it empowers
- 02** Data analysis is your compass in the vast sea of information
- 03** It helps unravel mysteries, predict trends, and uncover hidden gems

