

Statistical inference

Multivariate data

Sample distribution

Sampling variability

Statistical estimate

Summary statistic

Exploratory data analysis

Confidence interval

Hypothesis test

Data with multiple variables or characteristics measured on each observation

The process of using data analysis to infer properties about a population

The variation in a statistic that occurs due to taking different random samples from the same population

The distribution of a statistic calculated from a random sample of a population

A numerical value calculated from the sample data to describe a population characteristic

A value calculated from sample data that is used to approximate an unknown population parameter

A range of plausible values for a population parameter based on sample data

Initial examination of data to understand its structure and identify patterns

A formal statistical procedure for evaluating whether sample evidence supports a claim about a population