

15 BASIC STATISTICAL CONCEPTS

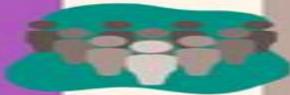
1. Descriptive Statistics

These help summarize and describe the main features of a dataset. Common tools include mean, median, mode, range, and standard deviation.



3. Population vs. Sample

A population is the full group you're studying, while a sample is a smaller part used for analysis. Studying a sample saves time and resources.



5. Data Types

There are four types of data: nominal, ordinal, interval, and ratio. Each type determines how data can be analyzed and interpreted.



7. Distributions

A distribution shows how data values are spread out or clustered. The most common is the normal distribution, or bell curve.



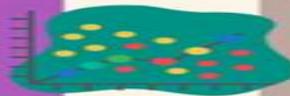
9. Confidence Intervals

A confidence interval is a range of values that likely includes the true population value. It reflects both the estimate and the uncertainty around it.



11. Regression Analysis

Regression predicts the value of one variable based on another. It also helps us understand how variables are related.



13. Central Limit Theorem

This states that the averages of samples tend to follow a normal distribution, even if the original data doesn't. It allows us to make inferences from sample data.



15. ANOVA (Analysis of Variance)

ANOVA compares the means of three or more groups to see if they are significantly different. It's useful when testing multiple treatments or categories.

2. Inferential Statistics

Used to make predictions or generalizations about a population based on a sample. It helps us draw conclusions without analyzing the entire population.

4. Types of Variables

Variables are characteristics measured in a study— independent variables cause change, and dependent variables show effects. They can be qualitative or quantitative, discrete or continuous.

6. Probability

Probability measures how likely an event is to happen, ranging from 0 (impossible) to 1 (certain). It helps us quantify uncertainty.

8. Hypothesis Testing

This is a method for testing assumptions about a population. You compare a null hypothesis (no effect) with an alternative hypothesis (some effect).

10. Correlation

Correlation shows the strength and direction of a relationship between two variables. A positive value means they move together, a negative one means they move oppositely.

12. Statistical Significance

Statistical significance means a result is likely not due to chance. It's often determined using a p-value threshold like 0.05.

14. Sampling Methods

Different ways to choose a sample include random, stratified, and convenience sampling. A good sampling method ensures better accuracy and less bias.



Statistical Concepts A Basic Program

Liyong Dong



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