

What is hypothesis testing and how is it used in statistical analysis?

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Hypothesis testing is a statistical method used to determine whether a hypothesis about a population is supported by the evidence from a sample of data. It involves formulating a null hypothesis, which assumes there is no significant difference or relationship between variables, and an alternative hypothesis, which suggests there is a significant difference or relationship. The sample data is then analyzed using various statistical tests to determine the probability of obtaining the observed results if the null hypothesis were true. If the probability is low enough, the null hypothesis is rejected in favor of the alternative hypothesis, indicating that there is a significant difference or relationship between the variables being studied. Hypothesis testing is an important tool in statistical analysis as it allows researchers to make conclusions based on evidence and helps to avoid drawing false conclusions from data. It is used in various fields, including science, economics, and social sciences, to test theories and make informed decisions.

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