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Statistical inference is the process of using data analysis to infer properties of an underlying distribution of probability. Inferential statistical analysis infers properties of a population, for example, by testing hypotheses and deriving estimates. It is assumed that the observed data set is sampled from a larger population. Statistical inference is a branch of statistics that deals with the process of drawing conclusions about a population from a sample. It is divided into two main branches: descriptive statistics and inferential statistics. Descriptive statistics summarize the characteristics of a data set, while inferential statistics help you come to conclusions and make predictions based on your data. When you have collected data from a sample, you can use inferential statistics to understand the larger population from which the sample is taken. This is a new approach to an introductory statistical inference textbook motivated by probability theory as logic. It is targeted to the typical statistics 101 college student and covers the topics typically covered in a statistics 101 course. Statistical inference concerns the application and appraisal of methods and procedures with a view to learn from data about observable stochastic phenomena of interest using probabilistic constructs known as statistical models.

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understand the process of drawing conclusions about populations or scientific truths from data describe variability distributions limits and confidence intervals use p values confidence intervals and permutation tests make informed data analysis decisions

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