Summary about Statistical Studies and Analysis

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Introduction

Statistical analysis is the collection and interpretation of data in order to uncover patterns and trends Software for statistical analysis will typically allow users to do more complex analyses by including additional tools for organization and interpretation of data sets, as well as for the presentation of that data. IBM SPSS Statistics, RMP and Stata are some examples of statistical analysis software. For example, IBM SPSS Statistics covers much of the analytical process. From data preparation and data management to analysis and reporting. The software includes a customizable interface, and even though it may be hard form someone to use, it is relatively easy for those experienced in how it works. It is a component of data analytics. Statistical analysis can be used in situations like gathering research interpretations, statistical modelling or designing surveys and studies. Software for statistical analysis will typically allow users to do more complex analyses by including additional tools for organization and interpretation of data sets, as well as for the presentation of that data. IBM SPSS Statistics, RMP and Stata are some examples of statistical analysis software. For example, IBM SPSS Statistics covers much of the analytical process.

Description

The online technology firm TechTarget.com describes statistical analysis as an aspect of business intelligence that involves the collection and scrutiny of business data and the reporting of trends. After collecting data from your sample, you can organize and summarize the data using descriptive statistics. Then, you can use inferential statistics to formally test hypotheses and make estimates about the population. Finally, you can interpret and generalize your findings. This article is a practical introduction to statistical analysis for students and researchers. We'll walk you through the steps using two research examples. The first investigates a potential cause-and-effect relationship, while the second investigates a potential correlation between variables. "Statistical analysis examines every single data sample in a population (the set of items from which samples can be drawn), rather than a cross sectional representation of samples as less sophisticated methods do," TechTarget writes on its website. Manufacturers use statistics to weave quality into beautiful fabrics, to bring lift to the airline industry and to help guitarists make beautiful music. Researchers keep children healthy by using statistics to analyse data from the production of viral vaccines, which ensures consistency and safety. Communication companies use statistics to optimize network resources, improve service and reduce customer churn by gaining greater insight into subscriber requirements.

Conclusion

Statistical methods for speech processing refer to a general methodology in which knowledge about both a speech signal and the language that it expresses, along with practical uses of that knowledge for specific tasks or services, is developed from actual realizations of speech data through a well-defined mathematical and statistical formalism. For more than 20 years, this basic methodology has produced many advances and new results, particularly for recognizing and understanding speech and natural language by machine. In this article, we focus on two important statistical methods, one based primarily on a hidden Markov model formulation that has gained widespread acceptance as the dominant technique in characterizing the variation in the acoustic signal representing speech, and one related to the use of statistics for characterizing word co-occurrences.