

Statistics

Statistics is a branch of applied mathematics that deals with gathering, organizing, presenting, analyzing, and interpreting the collected data. There are two branches of statistics-descriptive statistics and inferential statistics. Descriptive statistics involves the collecting, organizing, describing, summarizing, and presenting of gathered data in a meaningful and informative way while inferential statistics refers to the process of drawing conclusion and making decisions on the population based on evidence obtained from a sample. Inferential statistics include estimation and hypothesis testing.

In performing all these processes involved, the application of statistical tools and techniques is necessary. Statistical tools derived from mathematics are useful in processing and managing numerical data in order to describe a phenomenon and predict values.

The essential processes arrange the data to be analyzed and interpreted. These refer to gathering and organizing data that can be done using the frequency distribution or group data and series of values in the case of few data or values. The use of the measures of central tendency is very much important to help us determine central value which can be used to describe the general or overall performance of a certain group of values like the mean, the median, the mode. On the other hand, the measures of dispersion can also be utilized in order to know how close or how far the data or values from each other like the range, standard deviation, and the variance. These are also helpful in describing whether the scattered, varied, distant or spread or they are just clustered or close to each other. These measures also include the measures of relative position which include percentile, quartile and decile.

The tool which serves as intermediary between theory and practice, between thought and observation, is Mathematics; it is mathematics which builds the linking bridges and gives the ever more reliable forms David Hilbert

Gathering and organizing Data

The data (Asaad, 2004) are the quantities (numbers) or qualities (attributes) measured or observed that are to be collected and/or analyzed. A collection of data is called data set. Two categories of data are categorical and continuous data. **Categorical data** are nominal and ordinal scales while **Continuous data** are ratio and interval scales.

Nominal Scale – consist of a finite set of possible values having no particular order. (Example: gender, mode of transportation, nationality, occupation, and civil status).

Ordinal Scale – set of possible values having a specific order. (Example: pain level, social status, attitude towards a subject)

Continuous Scale – has interval and ratio scales.

Interval Scale – are measured on continuum and differences between any two numbers on the scale are of known size. (Example: temperature, ton of garbage, number of arrests, income and age). There is a need to distinguish them in order to decide what method to use because it varies according to the type of data. Categorical data use non-parametric statistics while continuous data use parametric statistics.

A **Variable** refers to a property that can take on different values or categories which cannot be predicted with certainty. The three common types of variables are **independent variable or X** which are also called explanatory variables, these may be continuous, nominal or ordinal; **dependent variable or Y** which are also called the response variables; and **control variables or Z** variables. Variables can also be classified as qualitative variable and quantitative variable.

Study Guide For Probability And Statistics

J. S. Mehta, K. Raghunandanan



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