

Real World Applications of Statistical Methods in Design

Various functions in statistics can be utilized in accuracy to every reality, contrasting the qualities, testing speculations, climate assessment, and much more. Application of statistical methods can help in improving the thinking abilities that are important to figure the uncertainty. Statistical concepts can easily be applied to real world, such as for calculating the time to get ready for work, what is the anticipated expense required to go to office every month, gymming diet count of a week, in education, and much more. Besides this, statistics can be utilized for managing daily routines so that you can work efficiently.

To enlist a few applications, following could be/are areas in which statistical methods be applied:

- 1. Governance-** Statistics can help a government make informed policy decisions regarding many different areas. An example would be, if a government receives statistics based on their economy and it tells them that there is a 13 % unemployment rate. This would signal to a government to make a policy decision regarding this statistical data.
- 2. Weather Forecasting-** Statistical methods use the past records of weather data on the assumption that future will be a repetition of the past weather. The main purpose of studying the past weather data is to find out those aspects of the weather that are good indicators of the future events.
- 3. Medicine-** Use of statistics in medicine is to manage data based medical uncertainties in research and practice. Statistics helps in managing both aleatory and epistemic uncertainties. Both types of uncertainties are present in almost every medical situation - thus the use of statistics, which understands randomness with probability as sheet anchor, is omni-present with any set of medical observation.
- 4. Insurance-** Statistics is used to determine what risk an insured person poses to an insurance company, what percentage of policies is likely to pay out, and how much money a company can expect to pay out in claims.
- 5. Prediction of diseases-** Statistics is even playing a role in the medical field. Statistics help us to know how many numbers of people are suffering from the disease. It also helps us to understand how many have died from the same disease. But the best part of statistics is that it also helps you to find out how much you affected from the deceased. For example, a study has shown that more than 75% of people are infected with a disease that is caused by mango. In that case, you might avoid mango to avoid this disease.