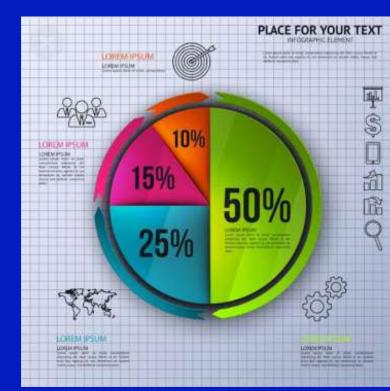


TRINITY COLLEGE FOR WOMEN NAMAKKAL Department of Mathematics Advanced Business Statistics 19PCM07-Evevn Semester

Presented by
Dr. B. MOHANA PRIYAA
Assistant professor
Department of Mathematics
http://www.trinitycollegenkl.edu.in/



Testing of Hypothesis

 Hypothesis testing is an act in statistics whereby an analyst tests an assumption regarding a population parameter.

 The methodology employed by the analyst depends on the nature of the data used and the reason for the analysis.

Parametric Test

- Parametric tests are those that make assumptions about the parameters of the population distribution from which the sample is drawn.
- This is often the assumption that the population data are normally distributed.
- Non-parametric tests are "distributionfree" and, as such, can be used for non-Noemal variables

F-Tests

 An F-test is any statistical test in which the test statistic has an F-distribution under the null hypothesis.

 It is most often used when comparing statistical models that have been fitted to a data set, in order to identify the model that best fits the population from which the data were sampled.

One - way

 The purpose of a one-way ANOVA test is to determine the existence of a statistically significant difference among several group means.

 The test actually uses variances to help determine if the means are equal or not.

Two-way

 A two-way ANOVA test is a statistical test used to determine the effect of two nominal predictor variables on a continuous outcome variable.

 A two-way ANOVA tests the effect of two independent variables on a dependent variable.

X2 tests &Goodness of fit

 In Chi-Square goodness of fit test, the term goodness of fit is used to compare the observed sample distribution with the expected probability distribution.

 Chi-Square goodness of fit test determines how well theoretical distribution (such as normal, binomial, or Poisson) fits the empirical distribution.

Yates correction

 Yate's correction, also known as Yate's chisquared test, is used to test independence of events in a cross table i.e. a table showing frequency distribution of variables.

 It is used to test if a number of observations belonging to different categories validate a null hypothesis.

Uses of X2 Test

 χ2 can be used to test whether two variables are related or independent from one another.

 It can also be used to test the goodness-offit between an observed distribution and a theoretical distribution of frequencies.

THANK YOU

http://www.trinitycollegenkl.edu.in/