

Probability & Statistics with R Lab

List of Experiments

1. Calculate the probability of random variable for Binomial distribution using R.
2. Calculate the probability of random variable for Poisson distribution using R.
3. Calculate the probability of random variable for Normal distribution using R.
4. Calculate probability of mean of random variable using central limit theorem using R.
5. Calculate the confidence interval for mean and proportions C.
6. Perform z-test for testing single mean and difference of means at α level of significance using R.
7. Perform z-test for testing single proportion and difference of proportions at α level of significance using R.
8. Perform t-test for testing the single mean and difference of means at α level of significance using R.
9. Perform F-test for testing the equality of population variances at α level of significance using R.
10. Perform χ^2 -test for testing the goodness of fit and independence of attributes using R.
11. Perform ANOVA of one way and two way classifications to test on the basis of sample observations whether the means of 3 or more populations are equal or not, using R.
12. Perform Correlation and regression for given data, using R.