

Statistical Analysis using R

Course Overview

This Statistical Analysis using R course is designed to provide resource material that is useful for everyday statistical project work and prepared the student for higher level statistical learning courses in Machine Learning. The Statistics in R course includes theory to introduce statistical concepts and provides the class participant with R script programs to execute important topics and concepts.

Intended Audience

The Statistical Analysis using R course is intended for audiences that are relatively new to the field of Data Science. No prior Data Science training or knowledge is required. A basic understanding of probability and statistics is preferred.

Prerequisites

Attendees must download R and the Rstudio IDE onto their personal laptops prior to attending the training session. B

Learning Objectives

- ✔ Review of R coding & more advanced probability and statistics capabilities
- ✔ Introduce a variety of statistical analysis techniques such as:
 - Distributions
 - Significance testing
 - Chi-square goodness of fit
 - t-tests
 - ANOVA
- ✔ Present probability theory and provide exercises that demonstrate how these techniques are being used to deliver value for organizations
- ✔ Discuss various Probability and Non-probability sampling methods
- ✔ Introduce inferential statistics considerations and concepts widely used with respect to decision making and population analysis



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