

Learn By Example: Statistics and Data Science in R

Modality: On Demand

Duration: 9 Hours

About the course:

This training uses the R programming language as a guide to statistics and data science. This addresses both the theoretical dimensions of Statistical Concepts and the application of R in reality.

Audience:

- Engineers who wish to explore basic statistics and lay the basis for a Data Science career
- Business professionals or MBA graduates looking to transition into a substantially quantitative position
- People who have dealt mainly with software like Excel and want to know how to use R to evaluate statistics
- Analytics specialists who have worked primarily in Descriptive analytics and are involved in being modelers or data scientists

Prerequisite:

- No requirements: We begin from fundamentals and discuss everything you need to learn. As part of the program, we will install RStudio and R, and use it for most of the cases. Excel is being used for one of the instances and is believed to have a basic understanding of excel.

Course Outline:

- Introduction
- The 10 second answer: Descriptive Statistics
- Inferential Statistics
- Case studies in Inferential Statistics
- Diving into R
- Vectors
- Arrays
- Matrices
- Factors
- Lists and Data Frames
- Regression quantifies relationships between variables
- Linear Regression in Excel
- Linear Regression in R
- Data Visualization in R