

Learn By Example: Statistics and Data Science in R

Modality: Self-Paced Learning

Duration: 9 Hours

SUBSCRIPTION: Learn, Master, Master Plus

This course is an introduction to Data Science and Statistics using the R programming language. It covers both the theoretical aspects of Statistical concepts and the practical implementation using R.

Audience:

- MBA graduates or business professionals who are looking to move to a heavily quantitative role
- Engineers who want to understand basic statistics and lay a foundation for a career in Data Science
- Analytics professionals who have mostly worked in Descriptive analytics and want to make the shift to being modelers or data scientists
- Folks who've worked mostly with tools like Excel and want to learn how to use R for statistical analysis

Prerequisite:

- No prerequisites : We start from basics and cover everything you need to know. We will be installing R and RStudio as part of the course and using it for most of the examples. Excel is used for one of the examples and basic knowledge of excel is assumed.

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