# **Introduction to R for Data Science**

Modality: On Demand Duration: 12 Hours

# About the course:

R has gained a lot of popularity as the leading data language especially for statistics and data analysis. R is the number one choice for a data scientist. It doesn't matter what your field is as long as you have to deal with numbers or do data analysis, R is the perfect solution.

This course is based on seven parts where you will learn all about R. You will learn how to analyze data after learning R's syntax. You will also learn how to deal with complex data structures for example vectors, matrices, data frames and lists. Finally you will learn how to make visualizations using graphics by R.

With the use of the DataCamp platform you will be able to further hone your skills and this is what sets this course apart from others. You will have real experience of dealing with data problems and come up with different solutions simultaneously getting feedback on your work.

#### Aims:

- Learning the basics of R and basic syntax
- How you can analyze data using R
- Familiarizing yourself with different data structures
- Using R to make to visualizations

# **Prerequisite**

There are no prerequisites per se but knowing basic mathematics will come in handy.

### **Course Outline:**

#### 1. Basics

Lecture: R: The true basics
Lab: R: The true basics
Lecture: Basic data types
Lab: Basic Data Types
Further Readings

### 2. Vectors

Lecture: Create and name vectorsLab: Create and name vectors

• Lecture: Vector Arithmetic

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• Lab: Vector Arithmetic

Lecture: Vector Subsetting

Lab: Vector Subsetting

Further Readings

#### 3. Matrices

Lecture: Create and name matrices

• Lab: Create and name matrices

Lecture: Matrix subsetting

• Lab: Matrix subsetting

• Lecture: Matrix Arithmetic

Lab: Matrix Arithmetic

Further Readings

#### 4. Factors

Lecture: Factors

• Lab: Factors

Further Readings

#### 5. Lists

Lecture: Create and name lists

Lab: Create and name lists

· Lecture: Subset and extend lists

· Lab: Subset and extend lists

Further Readings

#### 6. Data frames

Lecture: Explore the data frame

• Lab: Explore the data frame

Lecture: Subset, extend and sort your data frame

· Lab: Subset, extend and sort your data frame

Further Readings

### 7. Graphics

Lecture: Basic graphics

• Lab: Basic graphics

Lecture: Customizing your plots

Lab: Customizing your plots

• Lecture: Multiple plots

Lab: Multiple plots

Further Readings

#### **Final Lab**

• Final Lab

# **Final Exam**

• Final Exam?