

**TECHNOLOGY & ENGINEERING SERIES**

# Introduction to R For Data Science



R is the gold standard programming language today for data scientist. R provides a wealth of libraries for data manipulation, visualization, and data modeling. R packages allows a beginner data scientist to build simple to sophisticated models quickly and easily in a few lines of code.

The course aims to quickly bring up to speed a programmer or business analyst who already know how to program in other language or have done advanced Excel MACROS to begin using R as a data science tool.

In the course, we will define data science and explore the first two things a data scientist must do – cleaning and visualizing data. We will learn and use R's dplyr, ggplot and ggvis packages for these tasks. We will move on to further steps in the Data Science Workflow - training models and testing them. We will do this by applying machine learning models to various industry-relevant data science problems. Our tool of choice will be the caret package.

At the end, you should have a working knowledge of how to solve data science problems with R.

## DATE

21 - 22 September 2017

## DURATION

2 Days; 9.00am to 5.30pm daily

## VENUE

**NUS University Town Education  
Centre (Level 2)  
8 College Avenue West  
Singapore 138608  
ERC Seminar Room 2**

## FEE

**\$S\$1,605 (includes GST)**

**REGISTRATION CLOSES ON  
14 SEPTEMBER 2017**

**REGISTER NOW!**

## COURSE OUTLINE

### Day 1

- ◆ Introduction to R, and Data Munging with Excel and R
- ◆ Analytics Visualization and Story-telling with R and friends
- ◆ Introduction to CRAN and Caret for statistical learning

### Day 2

- ◆ Statistical Learning 101 (A Refresher in R)
- ◆ The Analytics Dozen in R

## PRE-REQUISITES

Familiarity with a programming language such as Java, C/ C++ or Python but NOT essential, and statistics 101 at a pre-university level.

## WHO SHOULD ATTEND

Software Engineers, Programmers or Data Analysts



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