

TECHNOLOGY & ENGINEERING SERIES

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 programme 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 programme, 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

12 - 13 April 2018

DURATION

2 Days; 9.00am to 5.30pm daily

VENUE

National University of Singapore

**Registration will close 5
working days prior to
programme commencement
date**

REGISTER NOW!

PROGRAMME OUTLINE

Day 1

- ◆ Data Cleaning and Transformation: Getting Data into Shape
- ◆ Data Visualization: Mining for Insights and Telling a Story
- ◆ R as a Programming Language

Day 2

- ◆ Introduction to Predictive Modelling with R
- ◆ Communication and App Development with Shiny Apps.

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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FEES & FUNDING

	International Participants	Singapore Citizens ¹			Singapore PRs	Enhanced Training Support for SMEs ⁴
		21 to 39 years old	40 years or older ²	Eligible for WTS ³	≥ 21 years old	
Full Programme Fee	S\$1,500.00	S\$1,500.00	S\$1,500.00	S\$1,500.00	S\$1,500.00	S\$1,500.00
Less: SSG Grant Amount	-	(S\$1,050.00)	(S\$1,050.00)	(S\$1,050.00)	(S\$1,050.00)	(S\$1,050.00)
Nett Programme Fee	S\$1,500.00	S\$450.00	S\$450.00	S\$450.00	S\$450.00	S\$450.00
7% GST on Nett Programme Fee	S\$105.00	S\$31.50	S\$31.50	S\$31.50	S\$31.50	S\$31.50
Total Nett Programme Fee Payable, Including GST	S\$1,605.00	S\$481.50	S\$481.50	S\$481.50	S\$481.50	S\$481.50
Less Additional Funding if Eligible Under Various Schemes	-	-	(S\$300.00)	(S\$375.00)	-	(S\$300.00)
Total Nett Programme Fee Payable, Including GST, after additional funding from the various funding schemes	S\$1,605.00	S\$481.50	S\$181.50	S\$106.50	S\$481.50	S\$181.50

¹ All self-sponsored Singaporeans aged 25 and above can use their \$500 SkillsFuture Credit to pay for the programme. Visit the SkillsFuture Credit website (www.skillsfuture.sg/credit) to select the programme.

² Mid-Career Enhanced Subsidy - Singaporeans aged 40 and above may enjoy subsidies up to 90% of the programme fee.

³ Workfare Training Support (WTS) - Singaporeans aged 35 and above (13 years and above for persons With disabilities) and earn not more than S\$2,000 per month, may enjoy subsidies up to 95% of the programme fee.

⁴ Enhanced Training Support for SMEs (ETSS) - SME-sponsored employees (Singaporean Citizens and PRs) may enjoy subsidies up to 90% of the programme fee. For more information, visit www.ssg.gov.sg/programmes-and-initiatives/training/enhanced-training-support-for-smes.html.

⁵ Eligible organisations (excluding government entities) may apply for the absentee payroll funding via SkillsConnect at www.skillsconnect.gov.sg for Singaporean/permanent resident participants attending the programme during working hours. The absentee payroll funding is computed at 80% of hourly basic salary capped at \$4.50 per hour or \$7.50 per hour for SME or 95% of hourly basic salary for WTS. For more information, visit <https://www.skillsconnect.gov.sg/sop/portal/e-Services/For%20Employers/AbsenteePayroll.jsp>

