TTDT05: Introduction to R Programming for Data Science

Description:

Instructor:



Training Date : วันที่ 20-22 สิงหาคม 2567 fee: 12,000 ฿ (ราคายังไม่รวม Vat 7%) Days & Duration: 3 Day(s) | 18 Hour(s)

Time: 09:00:00 - 16:00:00

Language : Thai

Venue : ห้องอบรมชั้น 3 อาคารซอฟต์แวรพาร์ค

Type: Classroom

Category: AI & Data Technology

Krisanapraphan Senior Director

Dr.Veerasak

Objectives :

Target Group:

Data Scientist, Data Analysis Engineer, Data Engineer, Bl Consultant, Bl Programmer, System Programmer, System Analyst, Development Manager, Project Manager or Chief Technology Officer, Chief Innovation Officer.

Benefits:

Course Outline:

Day 1

1. Overview

- History of R
- · Advantages and disadvantages
- Downloading and installing
- How to find documentation

2. Introduction

- Using the R console
- Getting help
- Learning about the environment
- Writing and executing scripts
- Saving your work

3. Installing Packages

- Finding resources
- Installing resources

4. Data Structures, Variables

- Variables and assignment
- Data types
- Indexing, subsetting

- Viewing data and summaries
- Naming conventions
- Objects

- 5. Getting Data into the R Environment
 Built-in data
 Reading data from structured text files
 Reading data using ODBC

6. Control Flow

- Truth testingBranching
- Looping
 Vectorized calculations
 Functions in Depth

- 7. Functions in Depth
 Parameters
 Return values
 Variable scope
 Exception handling
 Return values
 Take the scope
 Exception handling
 Return values
 Lace the scope
 Exception handling
 Return values
 Lace the scope
 Lace the s

Continuous data Categorical data Inferential Statistics

- Bivariate correlation
 T-test and non-parametric equivalents
- Chi-squared test Distribution testing
- Power testing

- 11. Group By Calculations

 Split apply combine strategy
 12. Base Graphics

- 12. Base Graphics

 Base graphics system in R

 Scatterplots, histograms, barcharts, box and whiskers, dotplots
 Labels, legends, Titles, Axes
 Exporting graphics to different formats

 13. Advanced R Graphics: GGPlot2
 Understanding the grammar of graphics
 Quick plot function
 Building graphics by pieces

 14. Linear Regression
 Linear models
 Regression plots

- Regression plots
 Confounding / Interaction in regression
 Scoring new data from models (prediction)
- 15. Conclusion

Payment Condition:

Payment can be made by:

- 1. Cash or Credit Card or Bank Cheque payable to
 - สำนักงานพัฒนาวิทยาศาสตร[์]และเทคโนโลยีแหงชาติ or National Science and Technology Development Agency

(a post-dated cheque is not accepted) on the first day of the service or within the last day of the service.

- 2. Account transfer and send the proof of the payment (the deposit slip) via email xxx@swpark.or.th
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Notes:

- Withholding tax (3%) is exempt.
- Should you need to withdraw, you must send the notice of the withdrawal in writing no later than 7 working days before the commencement date. The cancellation less than 7 days will be subject to a fine of 40% of the fee.
- Software Park Thailand reserves the rights to cancel courses due to unforeseen circumstances.

Contact Person:



For more information, contact our course coordinator on:

Juntima Klumchaun

©: 02 583 9992 Ext. **81424**

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You are encouraged to use the course schedule as a guide to plan your training. The schedule is accessible at www.swpark.or.th for more information.

