Data Science with R

Day 5,6 – Introduction to R Programming

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Today's Agenda

✓ R – Basics

- Introduction to R Programming
- Introduction to R/R Studio
- Installation and Setup
- Data Structures in R
- Slicing and Dicing the data

✓ R – Advanced

- Basic Inbuilt Functions
- User Defined Functions
- Control structures and Loops
- Importing Data Files in R
- Data Manipulation using 'dplyr'

R Basics

Introduction to R Programming

R can be regarded as an implementation of the S language which was developed at Bell Laboratories by Rick Becker, John Chambers and Allan Wilks, and also forms the basis of the S-Plus systems. R is an integrated suite of software facilities for data manipulation, calculation and graphical display. Among other things it has

- an effective data handling and storage facility,

- a suite of operators for calculations on arrays, in particular matrices,

- a large, coherent, integrated collection of intermediate tools for data analysis,

- graphical facilities for data analysis and display either directly at the computer or on hardcopy, and

- a well developed, simple and effective programming language (called 'S') which includes conditionals, loops, user defined recursive functions and input and output facilities. (Indeed most of the system supplied functions are themselves written in the S language.

https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf

R Basics

Installation and Setup

Install R and R Studio

https://cran.r-project.org/

https://www.rstudio.com/products/rstudio/download/#download

"Qs & As"

For more information or to set up an appointment, please contact us today.

jointact@tactlearn.com