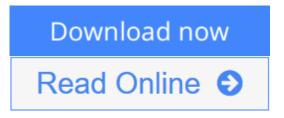# Data Manipulation with R - Second Edition

By Jaynal Abedin, Kishor Kumar Das

Data Manipulation with R - Second Edition By Jaynal Abedin, Kishor Kumar Das

Efficiently perform data manipulation using the split-apply-combine strategy in R

About This Book

- Perform data manipulation with add-on packages such as plyr, reshape, stringr, lubridate, and sqldf
- Learn about factor manipulation, string processing, and text manipulation techniques using the stringr and dplyr libraries
- Enhance your analytical skills in an intuitive way through step-by-step working examples

Who This Book Is For

This book is for all those who wish to learn about data manipulation from scratch and excel at aggregating data effectively. It is expected that you have basic knowledge of R and have previously done some basic administration work with R.

What You Will Learn

- Learn about R data types and their basic operations
- Work efficiently with string, factor, and date variables using stringr
- Understand group-wise data manipulation
- Work with different layouts of R datasets and interchange between layouts for varied purposes
- Manage bigger datasets using pylr and dpylr
- Perform data manipulation with add-on packages such as plyr, reshape, stringr, lubridate, and sqldf
- Manipulate datasets using SQL statements with the sqldf package
- Clean and structure raw data for data mining using text manipulation

In Detail

This book starts with the installation of R and how to go about using R and its libraries. We then discuss the mode of R objects and its classes and then highlight different R data types with their basic operations.

The primary focus on group-wise data manipulation with the split-apply-combine strategy has been explained with specific examples. The book also contains coverage of some specific libraries such as lubridate, reshape2, plyr, dplyr, stringr, and sqldf. You will not only learn about group-wise data manipulation, but also learn how to efficiently handle date, string, and factor variables along with different layouts of datasets using the reshape2 package.

By the end of this book, you will have learned about text manipulation using stringr, how to extract data from twitter using twitteR library, how to clean raw data, and how to structure your raw data for data mining.

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Editorial Review

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Jaynal Abedin currently holds the position of senior statistician at the Centre for Communicable Diseases (CCD) at the International Centre for Diarrhoeal Disease Research, Bangladesh (http://www.icddrb.org/). He attained his bachelor's and master's degrees in statistics from the University of Rajshahi, Bangladesh. He has extensive experience in R programming and Stata, and has good leadership qualities. He has contributed to two books on R and also developed an R package named edeR, short for e-mail data extraction using R, which is available at CRAN (http://cran.rproject.org/web/packages/edeR/index.html). He is currently leading a team of statisticians. He has hands-on experience in developing training material and facilitating training in R programming and Stata, along with statistical aspects in public health research. His primary areas of interest in research include causal inference and machine learning. He is currently involved in several ongoing public health research projects, and is a coauthor of nine peer-reviewed scientific papers. Moreover, he is involved in several work-in-progress manuscripts. He works as a freelance statistician in online marketplaces and has obtained a good reputation for his work.

Kishor Kumar Das

Kishor Kumar Das is a statistician at the International Centre for Diarrhoeal Disease Research, Bangladesh, an internationally recognized organization that focuses mainly on public health research. He completed his MSc and BSc in applied statistics from the Institute of Statistical Research and Training, University of Dhaka, Bangladesh. He has extensively used R for data processing, statistical analysis, and graphs for more than 10 years. His research interests are survival analysis, machine learning, and statistical computing.

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