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Limited Seats, Register @ GuptaProgramming@gmail.com



Practical R for SAS Programmers w/ Pharma Focus

Avoid the Steep Learning Curve! Master R Functions Today!

'Thanks for sharing Cheat Sheet and thanks for teaching us R during these weeks. It was really useful.' Emili Khachatryan, Statistical Programmer, The Gurus

COURSE DESCRIPTION

This unique hands-on 16-hours online class content teaches SAS programmers essential concepts about common R packages (Tidyverse, DPLYR, Piping, R Markdown and GT) and the R programming language. On a weekly, on-line basis, attendees learn how to access, create and process R data frames in data management, reporting and analysis. In addition, this class shows best practices in how to select, filter, derive, append and join data frames using SQL type code. Ideal for the pharmaceutical industry, examples of both SDTM and ADaM datasets will be created. This is important for Statistical SAS Programmers to be consistent with FDA, CDISC, and big pharma companies. Finally, tables, lists and graphs will be created from SDTMs and ADaMs.

Students are expected to complete assigned R programming exercises in student journals on a weekly basis as well as give a 5 -8 minutes R presentation on their R topic by the end of the class. All students will receive a copy of all R programs reviewed in class. Also included is four month access to R-Guru.com for rich content on R programming topics, task examples, e-books, [cheat sheets](#) and more. Finally, free email R mentoring and support are also provided for four months.

OUTLINE

A. Tasks for learning setup for R Programming: Importing Data into R Data Frames

- Install R Packages and Load Libraries
- Access CSV, Excel, R Data Frames and SAS Data sets

B. Tasks for learning basic R Programming: Vectors > Data Frames > Data Management > Join > Summarize > View

- Create Variables as Vectors and Assign Values or read CSV, Excel, SAS file into Data Frames
- Create Data Frames from Vectors
- Data Management Operations and Functions
- Join and Append Data Frames
- Summarize, Transpose and Format Data Frames, View and Display Data Frames

C. Tasks for learning advanced R Programming: Tidyverse > DPLYR (SQL) %>%

- Tidyverse Package for Data Management
- DPLYR for SQL
- R Piping %>%

D. Tasks for learning R Programming for Pharmaceutical Industry: SDTMs > ADaMs > Tables, Lists and Graphs

- Create SDTMs and ADaMs
- Summary Tables and Lists using R Markdown and GT packages
- Statistical Analysis, Create Graphs

Course Length: Up to 16-Hours Course Content with Lectures, Exercises and Discussions