#### R FOR RESEARCHERS

#### 2nd SARA Data Science Summer School

July 25-29, 2025 | Sonipat (HR)

#### Welcome!

**Savitribai Ramabai (SARA) Institute of Data Science** is a non-profit organization dedicated to inclusive education. We offer free and low-cost training in **coding, English, and data skills** for all. Thank you to our students and donors for supporting us. We are proudly supported by **The Ambedkar Educational Society, Sonipat.** 

All the best to all the participants.

Dr. Ajay & Dr. Kiran Contact: 925 315 2024

Email: sara.institute.info@gmail.com



## 7 DAY 1 - FRIDAY 25 JULY 2025

| Time                 | Activity                               | Notes                                     |
|----------------------|--|---|
| 08:30 AM to 09:15 AM | Breakfast                              |   |
| 09:30 AM to 10:00 AM | Welcome Ceremony - Candle Lighting     |   |
| 10:00 AM to 11:30 AM | Class Session 1                        | Introdcution to R                         |
| 11:30 AM to 12:00 AM | Break                                  |   |
| 12:00 AM to 01:30 PM | Class Session 2                        | Introduction to RStudio                   |
| 01:30 PM to 02:30 PM | Lunch                                  |   |
| 02:30 PM to 03:45 PM | Class Session 3                        | Introduction to Quarto                    |
| 03:45 PM to 04:00 PM | Break with Tea                         |   |
| 04:00 PM to 05:30 PM | Class Session 4<br>Wolf Riepl, Germany | Functional Programming in R and tidyverse |
| 07:30 PM to 08:30 PM | Dinner                                 |   |



### 7 DAY 2 - SATURDAY 26 JULY 2025

| Time                 | Activity  | Notes                                |
|----------------------|---|--------------------------------------|
| 08:30 AM to 09:30 AM | Breakfast   |                                      |
| 10:00 AM to 11:30 AM | Class Session 1   | Quarto + Markdown                    |
| 11:30 AM to 12:00 AM | Break   |                                      |
| 12:00 AM to 01:30 PM | Class Session 2   | Code Chunk + R Object                |
| 01:30 PM to 2:30 PM  | Lunch   |                                      |
| 02:30 PM to 03:45 PM | Class Session 3   | Data Wrangling                       |
| 03:45 PM to 04:00 PM | Break for Tea   |                                      |
| 04:00 PM to 05:30 PM | Class Session 4<br>Dr. Cecilia Baldoni Bio-statisti-<br>cian, Germany | Data Wrangling with the {tidy-verse} |
| 07:00 PM to 08:00 PM | Dinner  |                                      |



## 77 DAY 3 - SUNDAY 27 JULY 2025

| Time                 | Activity   | Notes   |
|----------------------|--|---|
| 08:30 AM to 09:30 AM | Breakfast  |   |
| 10:00 AM to 11:30 AM | Class Session 1  | Presenting Data   |
| 11:30 AM to 12:00 AM | Break for Tea  |   |
| 12:00 AM to 01:30 PM | Class Session 2  | Presenting Data   |
| 01:30 PM to 2:30 PM  | Lunch  |   |
| 02:30 PM to 03:45 PM | Class Session 3  | Probability + Z-score   |
| 03:45 PM to 04:00 PM | Break for Tea  |   |
| 04:00 PM to 05:30 PM | Class Session 4<br>Anirban Shaw, R & Shiny Expert, India | Data Storytelling with R: From CSV to Interactive Visualization using Shiny |
| 07:00 PM to 08:00 PM | Dinner   |   |



# 77 DAY 4 - MONDAY 28 JULY 2025

| Time                 | Activity  | Notes  |
|----------------------|---|--|
| 08:30 AM to 09:30 AM | Breakfast   |  |
| 10:00 AM to 11:30 AM | Class Session 1   | Presenting Data                                |
| 11:30 AM to 12:00 AM | Break for Tea   |  |
| 12:00 AM to 01:30 PM | Class Session 2   | Presenting Data                                |
| 01:30 PM to 2:30 PM  | Lunch   |  |
| 02:30 PM to 03:45 PM | Class Session 3   | Probability + Z-score                          |
| 03:45 PM to 04:00 PM | Break for Tea   |  |
| 04:00 PM to 05:30 PM | Class Session 4<br>Dr. Lito P Cruz, Principal Data<br>Science Consultant, Australia | Hypothesis Testing & Forecasting by Regression |
| 07:00 PM to 08:00 PM | Dinner  |  |



# 77 DAY 5 - TUESADY 29 JULY 2025

| Time                 | Activity   | Notes  |
|----------------------|--|--|
| 08:30 AM to 09:30 AM | Breakfast  |  |
| 10:00 AM to 11:30 AM | Class Session 1  | Presenting Data                                  |
| 11:30 AM to 12:00 AM | Break for Tea  |  |
| 12:00 AM to 01:30 PM | Class Session 2  | Presenting Data                                  |
| 01:30 PM to 2:30 PM  | Lunch  |  |
| 02:30 PM to 03:45 PM | Class Session 3  | Probability + Z-score                            |
| 03:45 PM to 04:00 PM | Break for Tea  |  |
| 04:00 PM to 05:30 PM | Class Session 4 Betsabe Laila Cohen, Sociologist & R expert, Argentina | Code to Paper: Reproducible Research with Quarto |
| 07:00 PM to 08:00 PM | Dinner   |  |



#### **Your Feedback**

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