

Statistics using R

2nd SARA Statistics Winter School

Jan 23-27, 2026 | 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. Priority admission for marginalized communities and women. 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
Founders of SARA
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17 **DAY 1 - Friday 23 Jan 2026**

Time	Activity	Topic	Your Progress
08:30 am to 09:15 am	Breakfast		
09:30 am to 10:00 am	Welcome Ceremony	Tribute with Candles	
10:00 am to 11:30 am	Class Session 1	R, RStudio, & Quarto	
11:30 am to 12:00 am	Discussion Break		
12:00 am to 01:30 pm	Class Session 2	R, RStudio, & Quarto	
01:30 pm to 02:30 pm	Lunch		
02:30 pm to 04:00 pm	Class Session 3	Foundational Concepts in Statistical Research	
04:00 pm to 04:30 pm	Discussion Break with Tea		
04:30 pm to 06:00 pm	Class Session 4	Frequency Distribution	
07:30 pm to 08:30 pm	Dinner		

17 **DAY 2 - Saturday 24 Jan 2026**

Time	Activity	Topic	Your Progress
08:30 am to 09:30 am	Breakfast		
10:00 am to 11:30 am	Class Session 1	Exploratory Analysis (EDA)	Data
11:30 am to 12:00 am	Discussion Break		
12:00 am to 01:30 pm	Class Session 2	Exploratory Analysis (EDA)	Data
01:30 pm to 02:30 pm	Lunch		
02:30 pm to 04:00 pm	Class Session 3	Throwing Shapes	
04:00 pm to 04:30 pm	Discussion Break with Tea		
04:30 pm to 06:00 pm	Class Session 4	Central Tendency	
07:30 pm to 08:30 pm	Dinner		

 DAY 3 - Sunday 25 Jan 2026

Time	Activity	Topic	Your Progress
08:30 am to 09:30 am	Breakfast		
10:00 am to 11:30 am	Class Session 1	Statistical Models	
11:30 am to 12:00 am	Discussion Break		
12:00 am to 01:30 pm	Class Session 2	Measures of Dispersion	
01:30 pm to 02:30 pm	Lunch		
02:30 pm to 04:00 pm	Class Session 3	Data Visualization using ggplot2	
04:00 pm to 04:30 pm	Discussion Break with Tea		
04:30 pm to 06:00 pm	Class Session 4	GitHub Overview	
07:30 pm to 08:30 pm	Dinner		

17 **DAY 4 - Monday 26 Jan 2026**

Time	Activity	Topic	Your Progress
08:30 am to 09:30 am	Breakfast		
10:00 am to 11:30 am	Class Session 1	Probability Distribution	
11:30 am to 12:00 am	Discussion Break		
12:00 am to 01:30 pm	Class Session 2	Framing (NHST)	Hypothesis
01:30 pm to 02:30 pm	Lunch		
02:30 pm to 04:00 pm	Class Session 3	ANOVA & Chi-square Tests	
04:00 pm to 04:30 pm	Discussion Break with Tea		
04:30 pm to 06:00 pm	Class Session 4	t-test	
07:30 pm to 08:30 pm	Dinner		

 **DAY 5 - Tuesday 27 Jan 2026**

Time	Activity	Topic	Your Progress
08:30 am to 09:30 am	Breakfast		
10:00 am to 11:30 am	Class Session 1	Correlation vs Causation	
11:30 am to 12:00 am	Discussion Break		
12:00 am to 01:30 pm	Class Session 2	Correlation vs Causation	
01:30 pm to 02:30 pm	Lunch		
02:30 pm to 04:00 pm	Class Session 3	Linear Regression	
04:00 pm to 04:30 pm	Discussion Break with Tea		
04:30 pm to 06:00 pm	Class Session 4	Linear Regression	
06:30 pm to 07:30 pm	Thanks Ceremony	Your Feedback to Guests	
07:30 pm to 08:30 pm	Special Dinner		

Your Feedback

Name (*optional*):

For security reasons, your name will not be stored or transmitted.

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