

Program Schedule

Statistics for Machine Learning with R (SMLR)

(03-06 July 2023)

Program Schedule (Tentative)

Day 1 (July 03, 2023)

Time	Topics
DAY-I 10:15-10:30 AM (SJ)	Briefing about the workshop
DAY-I 10:30-11:25 AM (RB)	Introduction to R for Machine Learning
DAY – I 11:30 AM – 01:00 PM (RB)	Descriptive Statistics for machine Learning
<i>01:00 PM – 03:00 PM</i>	<i>Lunch Break</i>
DAY – I 3:00-5:00 PM (RB)	Statistics v/s Machine Learning

Day 2 (July 04, 2023)

Time	Topics
10:00-11:25 AM (MSP)	Comparison of Regression Methods with Machine Learning Methods I
11:30 AM – 01:00 PM (MSP)	Comparison of Regression Methods with Machine Learning Methods II
<i>01:00 PM – 03:00 PM</i>	<i>Lunch Break</i>
3:00-4:25 PM (AKM)	Logistic Regression and Random Forest I
4:30-6:00 PM (AKM)	Logistic Regression and Random Forest I

Day 3 (July 05, 2023)

Time	Topics
10:00-11:25 AM (ARB)	Ridge and Lasso Regression
11:30 AM – 01:00 PM (ARB)	Elastic Net, Analysis of High-Dimensional Data
<i>01:00 PM – 03:00 PM</i>	<i>Lunch Break</i>
3:00-5:00 PM (ARB)	Feature Engineering Using RStudio with Applications in real data, Dynamic Documentation using RStudio, Making Presentations and Reporting

Day 4 (July 06, 2023)

Time	Topics
10:00-11:25 AM (ARB)	Mathematical models of biological systems, solving differential equations using R
11:30 PM – 01:00 PM (ARB)	Fitting Differential Equations to Biological Data (LSE/ MLE), Analysing the outputs, and Summary
01:00-01:15 PM (SJ)	Valedictory Function