

# Data Analysis with R

## HANDOUT

Instructors: Nidhi Zare, Jasleen

### WEEK1:

- Introduction to R Studio
- Vectors, matrices, lists
- Manage data frames

### WEEK2:

- Complex programming structures (loop & conditional statements)
- Association Rule mining
- Practice exercise from week1 and week2 topics (Completed by the end of week)

### WEEK3:

- Text pre-processing
- Assignment1: Twitter Text and Sentiment Classification (On text pre-processing and building sentiment classifier): From second half of 3<sup>rd</sup> week to first half of 4<sup>th</sup> week

### WEEK4:

- Data visualization and Data Clustering
- Start of final assignment: Anomaly Detection (Data processing, data clustering, data visualization)

### WEEK5-6:

- Completion of final assignment
- Introduction to advance topics in R: Graphs and Networks
- Practice exercise for graphs and networks