


# NUS SOC Summer Workshop 2022

X-Cluster

## Data Story App Development with R

### Course Information

### **Learning content and Teaching**

 What will be covered during “trial” lectures?

#### Agenda


- An introduction to business analytics
- An introduction to R
- Basic building blocks of R
- Basic data wrangling with R

#### Learning Objective

- Students will have an overall understanding of what business analytics and the career potential in this field. They will learn the fundamentals of R as a programming language and master how to use R to handle data.

#### Assessment

- In class assessment: data cases will be given in class for students to practice the skills covered in class.
- After class assessment: An assignment with 3 challenging questions will be given to test students’ understanding of the topics.

 What will be covered during the “advanced” seminars?

#### Agenda

The advanced seminars will walk students through the process of business analytics project, focusing on how to dig insights from data and how to present the insights in a meaningful and impressive way via app development. The topics include

- Advanced data wrangling with R
- Data visualization with R
- APP development with R
- Business application cases

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#### Learning Objectives

- Students should be able to develop an app with insightful data visualization to provide users comprehensive understanding of risk and opportunities in a business or industry.

#### Assessment

- Three individual assignments with 3 questions each to test students understanding of various topics.
- A team project assignment that requires each team of 4-5 students to develop a data-drive app to tackle a specific data case.

👤 What will be the nature of the project work? How do you intend to split students into project groups, each consisting of 3 or 4 students?

Students must develop capability to work with anyone as teamwork skill is one of the most crucial skills for their future career. Thus, I will randomly group students into team of 4-5 members each for the online project work. The project is about developing an app to support a business initiative with data analytics.