NUS SOC Summer Workshop 2021
Analytics & IoT
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

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.