

SCMA248: INTRODUCTION TO DATA SCIENCE

FINAL PROJECT INSTUCTIONS:

For the group project, students must form a group of no more than five (5) people. Each group must write a report and give a presentation. Each group must complete the following tasks:

1. **Finding a suitable topic**

Suggested topics could be (but not limited to)

- an interesting application to which you apply an existing data science technique you have learned in the class.
- data science concepts and techniques which have not been covered in the class.

2. **Writing your report**

The report should **not be more than fifteen pages**.

Your reports, like any other type of content, should follow a precise structure that helps the reader understand the content of the report and understand it more easily. The structure should look something like this:

- **Introduction:** a good introduction is necessary for any report. This is where you introduce the reader to the project, the reasons for conducting the analysis, and the goals you hope to achieve. This should also be where you lay out the table of contents.
- **Methodology:** this does not have to be technical. Simply describe the data you are working with, the types of analysis you performed, and why.
- **Results:** This is the main body of the report, likely divided into sections based on the different (business or other areas) questions the report is trying to answer and the results generated for each question.
- **Recommendations for Decision Making (if appropriate):** you have completed the project, done the analysis, and received your results. What business action should be taken based on these results? Keep a cool head.
- **Conclusion:** summarise the entire report (in a single paragraph if possible), from the original goal of the project to the proposed decision outcomes. In this final paragraph, you can add your own personal touch by explaining what the results mean to you and possibly suggesting further research on the topic.

3. **Presentation of your report.**

Your display should provide an outline of your talk, not your entire report. Also, you should take care not to simply read from your display or report.

- All the group members must be involved during presentation.
- 10-15 minutes for time allocations per group.

Presentation slides and report submission date: 22 April 2022 before 4 pm.

Grading

Grading will be based on an assessment from the instructor. Scores will be given as follows:

Report (15)

Presentation (15)

Rubrics for the report and the presentation will be announced soon.

Late submission and plagiarism will be penalized and marks will be deducted.

- machine learning
- case studies from outside the classroom
- searching skill for working on group assignments
- doing presentation in the classroom