

**STAT 112 – INTRODUCTION TO DATA PROCESSING AND VISUALIZATION  
PROJECT**

Here is the outline for your term project:

**Report:**

- Now that you receive the data set for your project, work on it. You can use any methods that we have learned in this course.
- Write a FORMAL report, including all the sections that should be in a report (such as Introduction, etc.). Include only the most important findings.
- Your report should be **less than or equal to 10 A4 papers written in Times New Roman-font 12, including graphs & tables** (Upload the **Python codes as a separate .ipnyb file to your GitHub account, if it exists. Otherwise, sign in GitHub immediately :) .** Please write comments on each line of the code). Note that, you should use a considerably large amount of space for your text (not figures, tables, Python code, etc.). Do not just copy-paste your output; you should include interpretations, findings, etc in words.
- In your report you must write each data pre-processing stage one by one following the Checklist given to you before.
- You can use any visualization packages such as seaborn, plotly, matplotlib etc. in your project.
- Format of the final report must include:
  - Cover Page including the project title and names of the group members
  - Abstract
  - Introduction
  - Data tidying and Cleaning Steps
  - Exploratory Data Analysis (research questions, figures and/or tables and your interpretations and answer to your research questions)
  - Conclusion (Summarize all your findings in 6-7 sentences)
  - References (if any)
  - Your report should have a page number at the bottom of the page
- Turnitin program will check the similarities in your reports with the student files and other documents available on the internet. If the similarity is more than 40% you will receive 0 as a group.
- Only group leaders submit this final report to **TURNITIN on ODTUClass by 20/01/2023, 23:59.**

## REFLECTION REPORT

**Each student** must write a 1-page reflection (1 Per Person) and upload this reflection as a **separate report to the ODTUCLASS** project submission site.

The report must include:

- What were your overall feelings about this project?
- Did this project help you to understand the data preprocessing and visualization steps in data analysis any better?
- How did your group work together? How many times did you meet to discuss the project? Were the meetings online or face-to-face? Usually how long do the meetings take?
- What was your role in the group?
- Were there any group members that did not pull their weight? Any group members who tried to boss the group around?

Submit the reflection reports papers, clean data and Python codes to the **Term Project Assignment on ODTUCLASS by 20/01/2023, 23:59.**