

DATA 211 Course Project (Adopted from Dear Data project)

Objective

The goal of this project is to apply visualization skills and analysis skills to your daily life. You will be asked to collect your own data over a two-week period, visualize the data, and analyze the data.

Requirements

You will be collecting data about your **daily life on one topic** (e.g., amount of sleep, amount of coffee consumption, etc.) of your own choice over a two-week period. Come up with a question that you can answer using your data (e.g., Is your average amount of sleep less than the recommended 8 hours by the National Sleep Foundation)? Formulate the null and alternative hypotheses to answer your question. Generate appropriate graphs to show your data (at least one graph) and explain your findings. Perform a T-test, a Z-test, or a simple linear regression to answer your question.

On November 30th, 2023, you will present your project using PowerPoint presentation to the class. The presentation should be limited to 5 minutes, with about 2 minutes for questions and transitions.

You need to include enough graphs and tables and report your statistical analysis in your presentation. All figures and tables should be appropriately labeled.

Grading

The grading of this project will be based on your presentation on November 30th and your GitHub repository. The presentation Rubric is on d2l. Both students and the instructor will be evaluating your presentation using that rubric. The instructor's evaluation counts for 60%, and the average of the student's evaluation counts for 30% of your project grade.

Due Date

The project is due on Wednesday, November 29th, at 11:59 p.m. and should be submitted to our D2L course site. You will need to submit your slides to the drop box. Late submission will lose ten points per calendar day.

GitHub Development

The presentation should be uploaded to your GitHub account, too, and shared with me. You can either put your GitHub link on your last slide or upload the link to the project drop box. The GitHub repository will count for 10% of your grade. The instruction for creating a GitHub repository is in the D2L project folder.

Dear Data Project

<http://www.dear-data.com/theproject>