

Homework 1 Assignment

Steps:

1. Get into groups of 2-3.

Tell TAs your groups by Thu, 2/8, 12pm. If TAs do not hear from your by then, TAs will put you in groups.

2. Use the dataset on Canvas

Folder: “Data for HW1”, file: SummerStudentAdmissions2.csv

The data is synthetic and does not relate to any actual college. You can assume that this data is internal, and you have access to it as a college employee who is tasked to analyze it and provide **actionable recommendations** to your audience

3. Clean and prep the data using R or Python.
4. Read & use **Chapter 2** from the book Storytelling with Data” (on Canvas). Choose effective visuals per that Chapter

Homework 1 Assignment (continued)

5. Create both:

- a. A **website-report** (an online report) that offers all the data evaluation, and visualization.
 - You determine what visualizations to use, etc. for your goals
 - b. 7 min **Presentation** that offers **ONLY key and critical information** along with **actionable decision-focused** items.
 - Decide what your goals is, and follow that goal.
 - You will mention your goal in the beginning of your presentation
- Use your website-report in your presentation or show it before the presentation – in any case your **total time** cannot exceed **7 min**

NOTE: Every team member must present

Homework 1 Assignment (details)

- Pretend that you are a lead Data Scientist with an educational institution.
 - Your audience are **VPs, directors, deans, managers, etc.**
- It is your job to use the data, evaluate the data and visualize the data.
 - Use Vis method of your choice, more than 1 is ok
- It is also your job to use your data analysis results to **communicate** the information within the data
 - What is your goal?
 - What is the actionable information?
 - What decisions can (and should) be made?

Details for Homework 1 Assignment (continued)

- Your presentation tells a story!
 - It has the beginning, middle and end
 - Use all that we already learned
 - Through lectures and the presentations
- All presentations and website reports will be evaluated by all class members and TAs
 - They will choose 4 best groups each to get extra points based on what we learned so far
 - For the web report
 - For presentation slides
- As an audience member you will get additional points for the valuable feedback
 - I will define that on the day of the presentation

Homework 1 Points

Starting place for HW1 is 135 points (90%)

- Points will be deducted if
 - Your presentation is too short (less than 6min and 50sec) or too long
 - Use your website-report in your presentation or show it before the presentation – in any case your total time cannot exceed 7 min
 - Your presentation does not clearly reflect the goal you defined, or your goal (think/feel/do) is not clearly defined
 - Your website-report is not prepared, or not shown during your presentation
 - No clear actionable items are defined
 - No clear story arc
 - The book material from the book's Chapter 2 is not utilized for visuals
 - Some team members have much shorter parts to present than others
- Points will be added if
 - Your presentation is voted one of the “best” by the audience
 - The goal you defined is met exceptionally well
 - An emotional component corresponded really well to your goal
 - Efficient visualization from Chapter 2 correspond well to your goal
 - Additionally, points will be added to you as an audience member, for the valuable feedback (will define on the day of the presentation)