DA1: Assignment, Extras, Submissions

Ágoston Reguly

Data Analysis 1: Exploration

2020

Submissions

- All submission will be through ceu-learning / Moodle
- This is a team assignment. From 3-member teams within programs.
- Teams must be (i) mixed gender, (ii) have at least 2 nationalities
- Use tidy approach!

Assignments - Task 1

- Visit restaurants and collect prices on margheritha pizza and on a optional beverage served in 0.5 l volume. You should visit at least 20 places in inner Budapest and 20 places which delivers pizza to CEU Budapest Campus.
- Use any districts in Budapest from the "inner city". Inner city is defined as districts: 5,6,7,8,9, 13(Pest side) , 2, 11 (Buda side). Everything else is outer Budapest.
- With the collected prices, create a dataset with tidy table(s)
- For each restaurant, please register the address, and 2-3 key features of the shop (e.g. area in m^3, stars of the restaurant, size of the pizza, etc.)
- *Modification*: can search for pizza delivery within Hungary. No need for delivery to CEU campus, but measure the distance from CEU and the given address (e.g. goolge maps). No need to have 20 observations from restaurants! The requirement is to have 40 observations overall, 20 from Budapest and 20 from rest of Hungary. Need margheritha pizza and 0.5l beverage with further variables.

Assignments - deadlines

Task 1. - Collect data (8%)

- Create a csv, xlsx or your favorite data container which is readable in R. (7%)
  - Tidy approach (1%), contains margherita and 0.5l beverage (2%), 2-3 other variables (3%), overall data quality (1%)
- Attach a readme and a variable.xlsx file which contains the explanation for your dataset. (1%)
- Deadline 18 October Sunday 23.55.am. (upload to ceu-learning site)

Task 2: Create a report describing your data. (12%)

- Joint assignment with Coding 1.
- Deadline: 25 October Sunday 23.55 (upload to ceu-learning site)

Assignment: Task 2

- Task 2: Create a report describing your data. (12%)
- Deadline: 25 October Sunday 23.55
- Submit a zipped file: single pdf, code and the data.
- Overall max 2 page. Reaching 3 pages I deduce 1p, Exceeding 3 pages I deduce 2 points/half page.

Assignment: Task 2

- Discuss the data collection, difficulties, problems. How you picked the beverage. How did you decide on store features to record and how did you code it? (1-2 paragraphs) [3p] point
- Present descriptive statistics for both prices (similarly to e.g. Table 3.6 in p 76 BK). You may do it with one or two tables as you see fit [2p]
- Show two descriptive graphs of price distributions of your products in the whole data. [2p]
- Show two descriptive graphs of price distributions of margheritha pizza conditioning on the online vs offline OR Budapest vs Rest of Hungary. [1p]
- Test if the price of margheritha is the same online vs offline OR Budapest VS Rest of Hungary. [2p]
- Summarize your findings regarding price distributions (1-3 sentence) [2p]

Extra 1

- End of chapter - Data exercises
  - Submit any 3 to get bonus points
  - * Easy/quicker - 1p
  - ** Harder/longer - 2p
- You may submit anytime during course
- Submit no more than 3 exercises in a single zipped file including a pdf, code and data if needed. The zipped file should be called lastname-firstname_da1_data-exercise.
- Final deadline: 20 October 23.55