Program: Data Science for Business /Spring Semester 2023

Subject: Data Visualization

Practice 1:

Deadline: 03 March 2023

Format: Share a github link via Slack with Julieta and Marianna.
Be able to shortly present it during the next class.

Grade: 1 point

Task:

1. Pick a dataset of your choice. You can use the links below for help:
   https://towardsdatascience.com/26-datasets-for-your-data-science-projects-6586 01590a4c
   https://www.kaggle.com/datasets/datasnaek/youtube-new

2. Read and understand the context of the dataset. You should be able to explain what a single data point represents, i.e. in a single sentence tell what one row of data means.

3. Use "Sort & Filter"and "Pivot Chart & Table" functionalities to further explore and summarize the dataset.
   ● Use the short tutorials below to learn about Pivot functionality in Excel:
     How to Filter in Excel - YouTube
     Pivot Table Excel Tutorial - YouTube

4. Formulate a hypothesis based on the exploratory analysis from previous steps.

   Example 1: Women and children had a higher chance to survive in Titanic than others.
   Example 2: People who are married and have a higher educational level are more likely to get approved for a credit card rather than single people with no education.

5. Create 4 charts that support your hypothesis. It is preferable to have different types of charts.
   ● Use the short tutorials below to learn about Creating basic charts in Excel:
     https://youtu.be/DAU0qqh_I-A