Homework 2

2023-02-23

Requirements

- How to read the requirements? **Carefully**
- Max possible points 20.
- Due date: 25.02.2023 22:59 **No late homework will be accepted.**
- Submission: **You need to upload files on Moodle**
- Rule of thumb: If the number of data points is greater than 50, **do not print the whole data**. Use subsets. Try to show all outputs (do not just store an object as a variable). Also, try to avoid using the same name for variables in the file.
- Cheating: The purpose of tasks is to check your knowledge (rather than the ability of thinking). Please, try to solve without googling every exercise. Try not to discuss with your classmates and work only on your file. **Any similarities, which can be considered as cheated, will not be graded.**
- Packages: The suggested packages are: matplotlib, pandas, seaborn, numpy
- About the data: data set has Autistic Spectrum Disorder (ASD) Screening Test Data for 704 adults and has 21 attributes including test takers' demographics. It also has 10 questions that test takers answered in screening tests. The status of a test taker on ASD is determined and recorded under the Class/ASD variable. Your goal is using visualization techniques analyze and find patterns in the data related to Autistic Spectrum Disorder.
- You can find in Google how to read .arff file.
- More info about data in MetaData.png file

Criterias

- Comment on all your graphs. If comments on your graphs will miss and your code will be messy your grade will be reduced up to 15%.
- Graphs: Pay attention to the design of your graphs. Use appropriate colors, don't leave default colors for your plots, use hexadecimal color codes or palettes. Don't leave column names as axis names. Add appropriate titles. Use different themes.
- Summary: Your summary must be meaningful, try cover as much as possible.