

INF 428/528 Spring22: Homework 4

April 19, 2022

- **Submission Deadline:** April 26, 2022, 11:59pm EST.
- **Submission Format:** All assignments must include your name, student ID, course name/number, and homework number. The submitted file name must include homework number and your name. Example: HW#_Name .pdf (writeup) Or HW#_Name .zip (code).
- Please submit your homeworks through **Blackboard**. Homeworks sent to my email will NOT be accepted.
- **Late Submission:** -10 penalty for the first 24-hour; -20 penalty for ≥ 24 hour; Zero score for ≥ 3 days.
- If you have any questions, please send to czhao4@albany.edu.

Apply the following seven visualization methods to explore real world data sets from UCI public data repository (<https://archive.ics.uci.edu/ml/index.php>). You may choose any data set you like. For visualization method, please discuss the potential patterns of the data set based on the visualization functions.

1. Histogram
2. Scatter plot
3. Line plot
4. Pie chart
5. Box plot
6. Correlation matrix plot
7. Word cloud

What need to include in your submission:

- Your Python code. **Use Matplotlib is required!**
- Screenshots of your Python code
- Description (written in PDF file) of your findings by applying each visualization method.