

# Data Visualization, spring 2020

## Real-world Visualization Assignment and Class Presentation

### Visual Data Analytics

Shahryar Rahnamayan, Professor

For each of the following five datasets, please utilize one or some visualization techniques to discover pattern(s) (i.e., both instance-related and attribute-related ones). You need specifically answer the following questions during the presentation of your results: 1) Why did you apply this/these visualization method(s)? 2) What kind of pattern(s) have you discovered? 3) What is your final conclusion?

(Note: You are allowed to use any available tool or your proposed hybrid one.)

1) Bar Crawl: Detecting Heavy Drinking Data Set

URL: <http://archive.ics.uci.edu/ml/datasets/Bar+Crawl%3A+Detecting+Heavy+Drinking>

Number of Instances: 14057567

Number of Attributes (dimension): 3

2) Breast Cancer Wisconsin (Diagnostic) Data Set

URL: <http://archive.ics.uci.edu/ml/datasets/Breast+Cancer+Wisconsin+%28Diagnostic%29>

Number of Instances: 569

Number of Attributes (dimension): 32

3) Human Activity Recognition Using Smartphones Data Set

URL: <http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones>

Number of Instances: 10299

Number of Attributes (dimension): 561

4) A study of Asian Religious and Biblical Texts Data Set

URL: <http://archive.ics.uci.edu/ml/datasets/A+study+of++Asian+Religious+and+Biblical+Texts>

Number of Instances: 590

Number of Attributes (dimension): 8265

5) Student Performance Data Set

URL: <http://archive.ics.uci.edu/ml/datasets/Student+Performance>

Number of Instances: 649

Number of Attributes (dimension): 33