CS 422: Data Mining

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Fall 2021: Homework 0 (0 points; not graded)

Due date: Tue, Sep 07, 2021 11:59:59 PM Chicago Time

1 Exercises

1.1 Describe in 2-3 sentences what you expect to achieve from this course. Add this description as a PDF file into the archive that you will upload.

2 Practicum problems

2.1 Problem 1

This exercise will ensure that you are comfortable with the mechanics of creating R notebooks and submitting the html from the notebook to Blackboard.

In the Homework 0 page on Blackboard, you will see a file called Template.Rmd. Use this file as a template for all your homeworks. Copy (or rename) this file to a new R notebook called vijay-gurbani.Rmd. (Your .Rmd file will use your *firstname-lastname*, of course.)

The first few lines of the notebook should be as follows:

```
---
title: “CS 422”
output: html_notebook
toc: yes
toc_float: yes
author: Vijay K. Gurbani
---
```

1-A: Load the *cars* dataset and print it. The *cars* dataset is a built-in dataset in R. To access it, simply type “attach(cars)” from the R REPL in RStdio.

1-B: Plot the data in the *cars* dataset as a:

- Scatterplot. Provide a title for the graph.
- Line graph. Provide a title for the graph.

1-C: Print a summary of the *cars* dataset using the R *summary()* command.

1-D: What is the maximum speed and minimum distance as shown in the *summary()* command?