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## Lab #2

Start Assignment

**Due** Jun 19 by 11:59pm **Points** 30 **Submitting** a text entry box or a file upload  
**Available** Jun 12 at 12am - Jul 31 at 11:59pm

EE5373: Data Modeling Using R

Summer, 2023

Department of Electrical and Computer Engineering

University of Minnesota

Lab 2: Data Cleaning

What to do:

Part 1

Download the CPU DB database in the file "all-data.csv" from [z.umn.edu/lrur](http://z.umn.edu/lrur). Read this data into R using the read-data.R program available at the same web site. Experiment with built-in R functions to analyze the various columns of data looking for unusual patterns, outliers, and anything else that might look amiss. For example, try the following for every column in the data frame:

- Compute the mean, variance, minimum, and maximum.
- Sort the column to look for outliers or unusual patterns.
- Compute the fraction of NA values to see if there are enough values for the corresponding column to be useful.

Part 2

Download and load into R the file "crab.txt" in canvas, use ggplot to plot two variables against each other and label the plot appropriately.

What to turn in for grading:

Write a short lab report describing all the tests that you did for each of the data frames. Be sure to include a representative set of your specific results. Based on your analysis, determine which columns of the database are "unusual" and describe how they are unusual. Also, describe any anomalies that you might see in the data. Explain how you would fix the unusual or anomalous data. You must include one interesting type of analysis beyond the list above.

Submission

× Not Submitted!

Submission Details

Grade: 0 (30 pts possible)

Graded Anonymously: no

Comments:

No Comments