M1L2 Homework Assignment (due midnight 20 Sep)

Attached Files:

⬜ M01_Lesson_02_Q1.csv (20.539 KB)

This homework assignment focuses on Probability Distributions. Please provide a written analysis based on the following information:

- First, replicate and plot the fat-tailed Cauchy distributions from https://en.wikipedia.org/wiki/Cauchy_distribution
- Next, load the file M01_Lesson_02_Q1.csv
- Finally, answer the following questions for the data in each column:
    1. How is the data distributed?
    2. What are the summary statistics?
    3. Are there anomalies/outliers?
    4. Try to regenerate the data in each column and plot your regenerated data versus the original data using a faceted graph. How does it compare?

Note: To submit/upload your response, click on the homework title link in blue.

M1L3 Homework Assignment (due midnight 20 Sep)

Attached Files:

⬜ M01_quasi_twitter.csv (2.204 MB)

This homework is based on exploratory data analysis. Pease provide a written analysis (as an RMA file) based on the following information:

- First, load the file M01_quasi_twitter.csv
- Next, answer the following questions for the data in each column:
    1. How is the data distributed?
    2. What happens when you test distribution assumptions (e.g. normal distributions or skewed, etc)?
    3. What are the summary statistics?
    4. Are there anomalies/outliers?
    5. Can you identify the following:
        - useful raw data and transforms (e.g. log(x))
        - data quality problems
        - outliers
        - subsets of interest
    6. Finally, suggest any functional relationships.

Note: Please upload your response as an .RMD file using this assignment submission link.