***COURSE PROJECT***

***STA 251***

You will be paired up with an ENG 102 student from Ms. Chester’s class to help analyze their writing style. You will be given a sample of the student’s “casual” writing style and “formal” writing style. You are going to analyze them to see if they write in a similar style. The student will also choose an author that their either like or think they write like. You are going to select a musician (song-writer). You are also going to select a famous speech. First come, first serve. You are going to compare the student’s writing styles to the author, the song-writer and speech-writer.

You will need the song lyrics from a favorite song. You will need the text of a “famous” speech. You need to provide the text of the items that you are using. For each of the samples you get, you need to collect the following information:

1. Number of words per sentence

2. Number of letters per word

3. Percentage of prepositions

4. Percentage of contractions

5. Percentage of pronouns

6. Percentage of commas

7. Letter distribution

You will need to compare the students casual writing style with their formal writing style. You will also need to compare each of your other three samples to the student’s casual writing style and compare each of your other three samples to the student’s formal writing style.

For item number 1 and 2, perform the proper hypothesis test on the means. For item number 1 and 2, perform the F-test on the standard deviations. For item number 3, 4, 5, and 6 perform the proper hypothesis test on the percents. For item number 7 perform the Chi-square test. For all tests, use 95% level of significance and write out all five steps.

Using all of the information that you collected, analyze the student’s writing style in comparison to those you tested it again. Put all of this neatly together in a written (Word) file. Include all relevant materials where needed.

**Grade Breakdown**

Mathematical Calculations/Accuracy: 80 points

This section will be based on the calculations that you perform for your project. I will be looking for the right type of calculations to have been done and whether they are calculated properly. Students are welcome to have me look over their problems and calculations for feedback, but I will not correct any calculations or suggest what needs to be calculated. I will just let you know if the calculations you have done are correct or not.

Report: 20 points

This section will be based on the organization and professional appearance of the written (Word) file.

Presentation: 50 points

During Final Exam week, you will need to make an appointment with me on Zoom to present your project. You should then be prepared to answer any questions about the process you used or the analysis of the results. Your written (Word) file will be due to me by that time.