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Q1A)

- a) Name of paper and student presenter

Towards Enhancing Road Safety in South Carolina Using Insights from Traffic & Driver-Education Data by Sai Teja Paladi

- b) Create a new example exemplifying the main conclusion of your example

Many crashes caused by excessive speeding (20mph over speed limit or more)

- c) Describe how the conclusion is supported in your answer

The expansion of Alive@25 would teach drivers the dangers of excessive speeding, thus lowering collision rate.

Q2)

- a) Describe your data preparation

I prompted Chat GPT to read each pdf file and output comma separated values of each class's attendance records. I then combined the data of each class into a single txt file that could easily be parsed in python.

- b) Describe your steps to create a model - pre trained, your own, manual

I used a pretrained model because it already contains strong language reading capabilities, which worked well enough that I did not have to build my own model.

- c) Answer the questions from your analysis

- a. What are the number of classes and their dates

Number of classes: 25

Class dates:

- 2025-08-19, - 2025-08-21, - 2025-08-26, - 2025-08-28, - 2025-09-04, - 2025-09-09, - 2025-09-11, - 2025-09-16, - 2025-09-18, - 2025-09-23, - 2025-09-25, - 2025-09-30, - 2025-10-02, - 2025-10-07, - 2025-10-14, - 2025-10-16, - 2025-10-21, - 2025-10-23, - 2025-10-28, - 2025-10-30, - 2025-11-04, - 2025-11-11, - 2025-11-13, - 2025-11-18, - 2025-11-20

- b. What is the median attendance per class

Median class attendance: 23

- c. What are the dates with the lowest and highest attendance

Lowest attendance: 14

Highest attendance: 49

- d. Is there a correlation of high attendance with course evaluation dates? When is the attendance the highest?

Yes, there is a correlation between evaluation days and attendance. The average attendance on an evaluation day is 40.0 students while only 32.36 students on a non-evaluation day. This difference in attendance shows that there is statistical evidence to suggest that there is a higher attendance rate on evaluation days.

- d) If you had more time, what more could you have done to improve performance?

I noticed that Chat GPT was only able to collect data for 25/27 of the classes. If I had more time, I would look into it and figure out why this is happening, or possibly create my own model.