**Final Question for the Dataset for Python Final Project**  Dec 12, 2023

**Main Questions:**

**Did the students really understand the course contents?**

**Were they satisfied with the course?**

**Students Self Evaluation Report:**

**(Are students' responses relating to understanding of the course positive?)**

1. Did the students feel challenged and performed well in the course? (Pie or Line)

feel challenged and moderate performance level

1. Did the students give effort, and consistent preparation for the course? (Line or Bar)

Gave effort which is followed by consistent preparation for class.

We could see a good amount of effort and consistent preparation in the class.

1. Is it true that students study consistently? (x*Scatterplot*)/(Line Graph) (correlation between actual study hours and their preparation for class) (Are there any outliers or anomalies in the reported number of hours spent on the course per week? How do these outliers affect the mean value of the study hours?)

There is a positive correlation between study hours and the preparation for the course.

1. How do study hours and preparedness for the class differ according to the students’ reason for choosing the course? (2 Bar Graphs - Study Hours and Preparedness)

We saw an anomaly in study hours and preparation of the students with the reason of ‘take opportunity’.

1. Did they perform well as much as they did consistent preparation? (Boxplot) - take out the people who choose 4 and 5 in consistent preparation and check if they actually performed well (Performance Level) (positive correlation between study hours, effort for the course, preparation for class, performance)

The performance level is normal and moderate with their given effort and preparation. (average - all-inclusive)

1. How much study hours do students usually spend on this course?

**Instructor's Effectiveness:**

**Could the instructor effectively teach the class?**

1. Are the students’ responses positive on teachers’ effectiveness of the teaching? (Pie) (value count the responses)

(Describe the students’ responses on teachers’ clear and organized teachings, the ability to stimulate student interest, and effective use of class time.)

1. Does the instructor's effectiveness for the class correlate to an increased interest in the data science field among the students? (5 scatterplots for each feature) (positive correlation) (can we add one more feature?)
2. What are the percentages of students’ confidence and increased interest? (Histogram)
3. Were the students satisfied with the course? Even when they are performing badly, will they recommend the course to their friends? - Correlation between Performance level and Recommendation (2 boxplots and histogram or pie) Bar?
4. How many of the students answered that the course increased their interest except for students with the reason 'Interest'? (Which graph not decided)

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