

Doctors Influence on students' grades

Survey to measure the influence of professors on their students' grades.

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Project1

1. Introduction:

This is an observational survey to measure the effectiveness of positive/negative professors on their students. We've conducted an online survey and asked some students what where their experiences with good and poor doctors, and we concluded the results which will be displayed in the following parts of the report.

2. Research Question:

Does the effectiveness of professors affect their student's grades?

3. Hypothesis:

It's hypothesized that most of the students' grades would be affected by their doctor's influence.

4. Population of interest:

All university students.

5. Sampling method:

The sampling method used for this survey is convenience sampling. We used this method because it's not available to reach out to the whole population.

6. Bias Identification:

In designing this survey, we took steps to identify and minimize potential sources of bias. There were two potential sources of bias. One sampling bias as our sample may not cover the entire population. To reduce this bias, we tried to reach as many students as possible from different universities. Two social desirability bias as respondents may feel the pressure to provide answers that are socially acceptable or desirable, rather than reflecting their true experiences or beliefs. To reduce this one, we ensured that the survey responses are anonymous and confidential.

7. Survey questions:

1. What is your grade in a course where you had a good (positive impactful) instructor?
2. What is your grade in a course where you had a poor (negative impactful) instructor?

3. Do you think that the instructor's influence on you was one of the primary factors affecting your grade?

Online survey link: <https://forms.gle/vitbLfNpjLgwchS39>

Numbers of samples collected: 71.

8. Analysis:

We will create visual representations of the data using charts and graphs to help identify any trends or patterns.

Your grade in a course, where you had a good (positive impactful) instructor

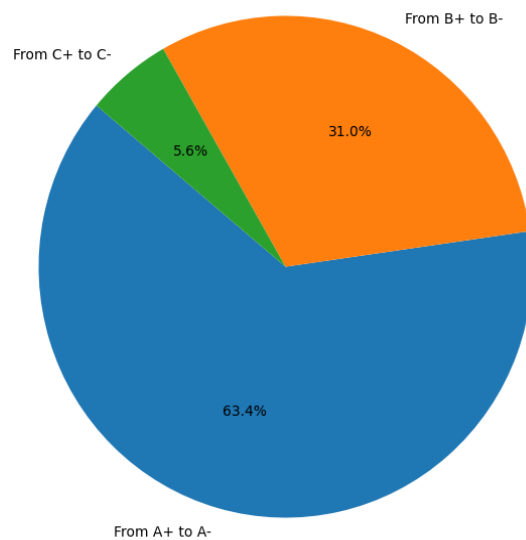


Figure 1: We can see that the greatest percentage is students who got from A+ to A- when they had a positive influencing instructor.

Your grade in a course, where you had a poor (negative impactful) instructor
From A+ to A-

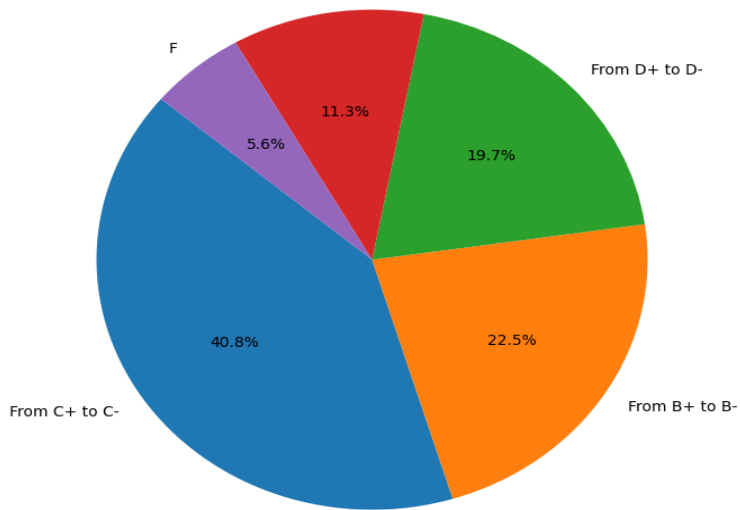


Figure 2: We can see here that the greatest percentage is students who scored from C+ to C- when having negative impactful instructor

Do you think that the instructor's influence on you was one of the primary factors influencing your grades?

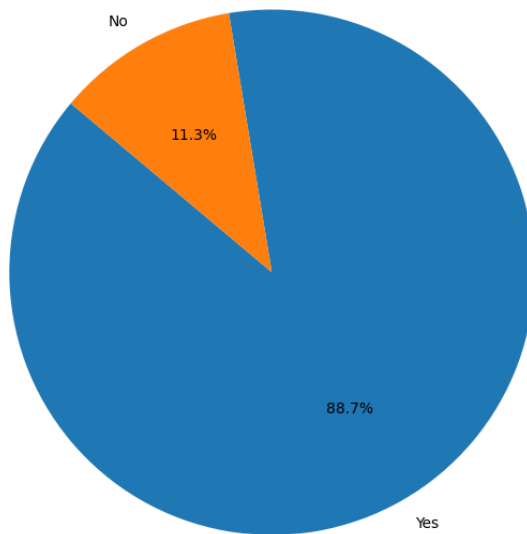
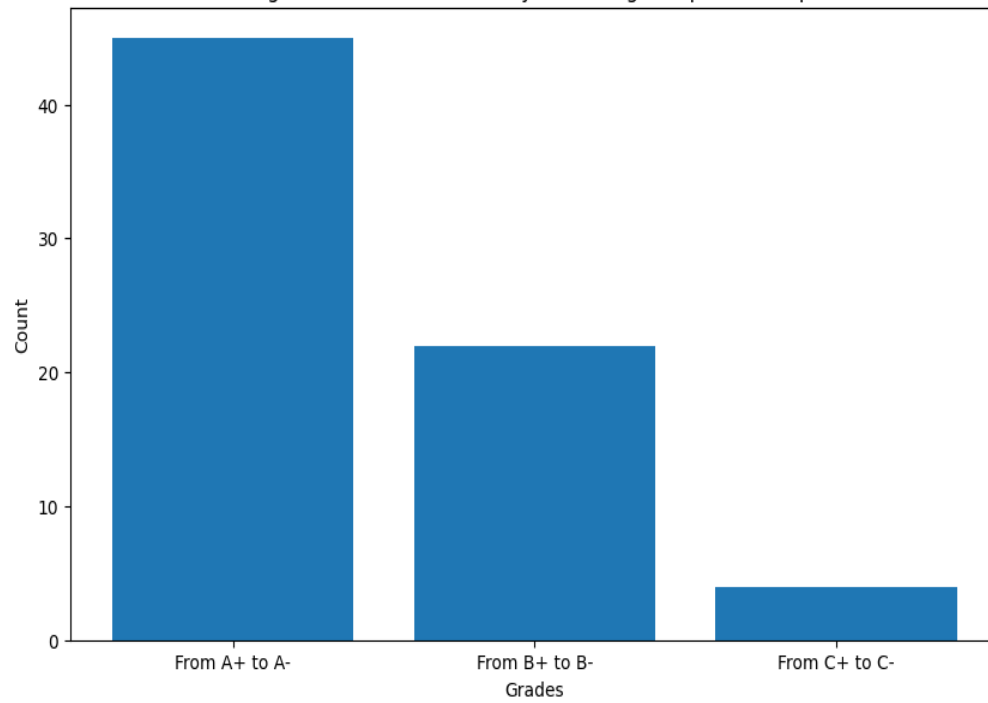
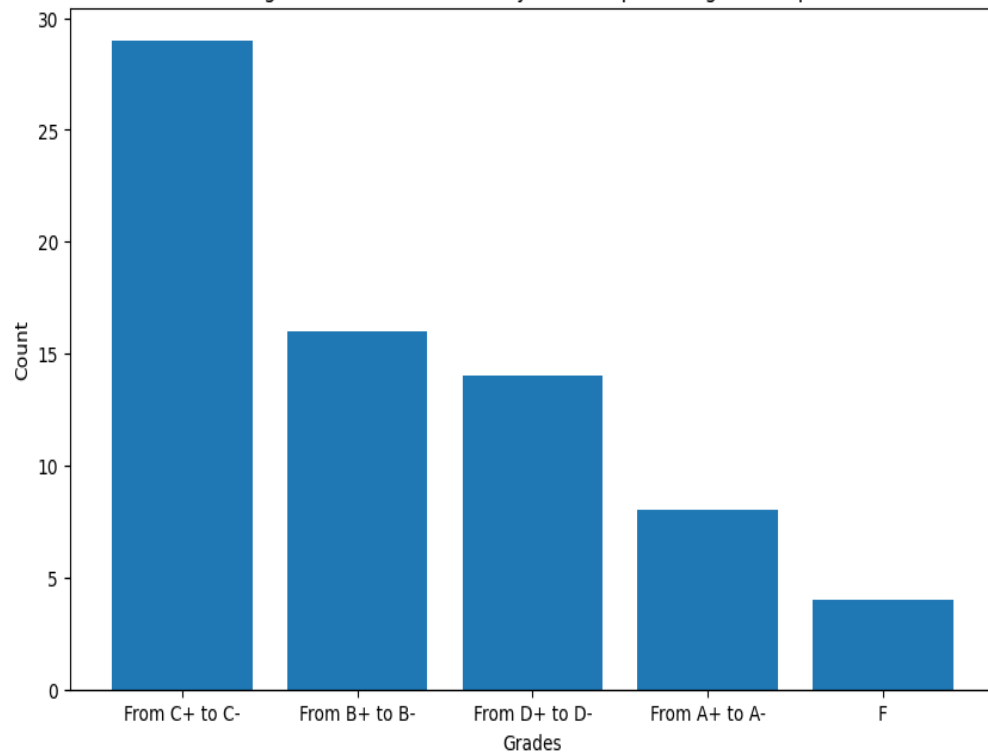


Figure 3: This is a helper variable to assure that the grades are influenced mainly by effectiveness of doctors.

Bar Chart of Your grade in a course, where you had a good (positive impactful) instructor



Bar Chart of Your grade in a course, where you had a poor (negative impactful) instructor



9. Conclusion:

Based on the analysis of the survey, we can conclude that university students' grades are highly affected by the effectiveness of their professors. It is also important to note that grades can be affected by any other external factors such as procrastination, lack of focus, etc.

10. Any potential issues:

During the data collection process, a potential issue that may arise is response bias. The wording of the survey questions may influence how respondents answer. For example, asking whether the instructor's influence was one of the primary factors influencing grades may lead to overestimation of the instructor's impact, particularly if they had strong feelings about the instructor. Finally, there's an important issue that we encountered because we collected all our data in a categorical form so that affected our analysis we couldn't collect any descriptive statistics.