



Project 1

# DATA ANALYSIS

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## Introduction

I've always thought that liking my instructor, my college professors for example, affected my grades in a good way, and vice versa. I used this project for my benefit to test my hypothesis on my colleagues because I've always wondered if everybody felt the way I do.

## Research Questions

Does liking or disliking your instructor, for example your college professors, affect your academic performance in any way?

## Hypothesis

Students' academic performance is affected by their feelings toward their instructors

## Population of Interest

EUI students are my population of interest in this project

## Sampling Method

I chose convenience sampling as my sampling method because I wanted my hypothesis to be tested on EUI students. Since I don't know the population of EUI I figured that sampling by ease of accessibility would be a good idea.

## Bias Identification

I made sure to minimize the bias by making sure that I took somewhat equal samples from every faculty (by ease of accessibility)

Also, a bias that I didn't notice till too late is that I didn't filter the responses of the people outside of my population of interest (EUI students), but I don't think it affected my data because the responses were very little.

## Survey Questions

1. [Are you an EUI student?]
2. [How old are you?]
3. [What is your faculty?]
4. [Does it matter (academically) if you like/dislike your instructor?]

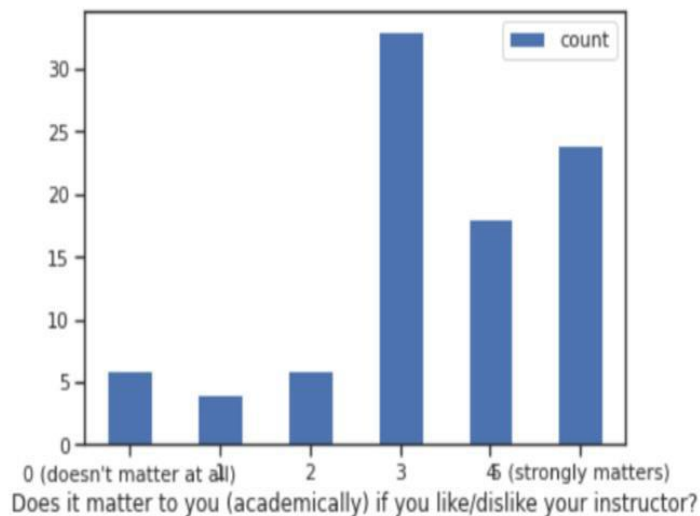
## 5. [What is your GPA?]

Online survey link: [https://docs.google.com/forms/d/e/1FAIpQLSfl1BMdU-XQ-Czt5L6LVeQdy\\_FDhAAjaKkyrfGwXihh66QZfQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfl1BMdU-XQ-Czt5L6LVeQdy_FDhAAjaKkyrfGwXihh66QZfQ/viewform?usp=sf_link)

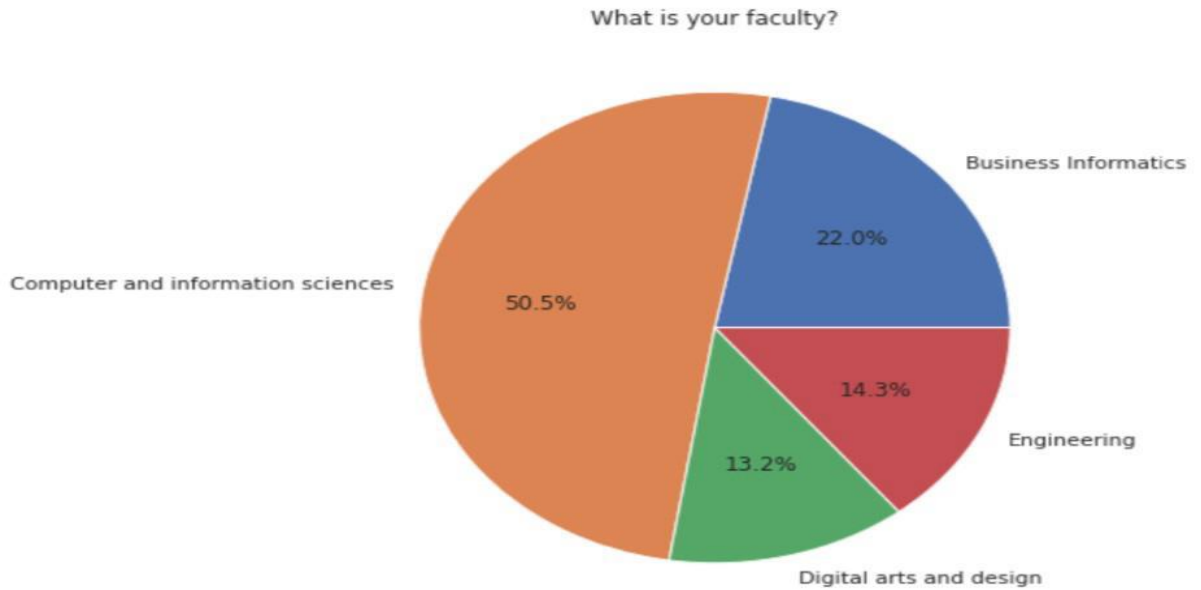
Number of samples collected: 91

## Analysis

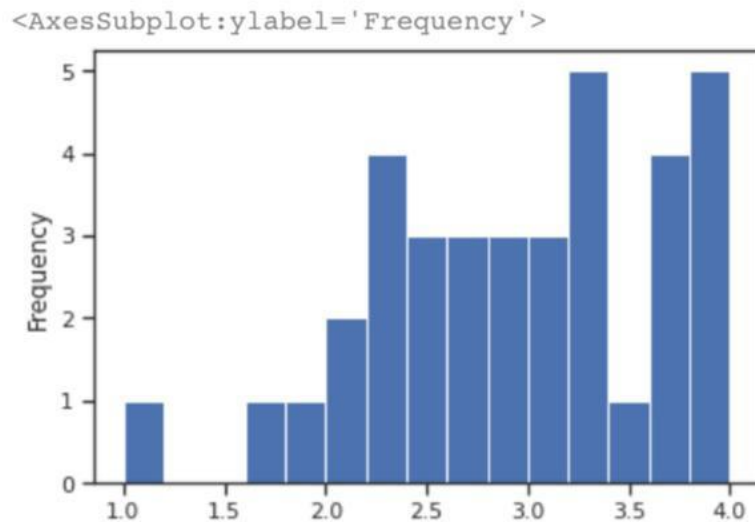
- On a scale from 1 through 5, I asked my population of interest if it matters to them academically if they like/dislike their instructor, the graph below shows that most people do matter to them



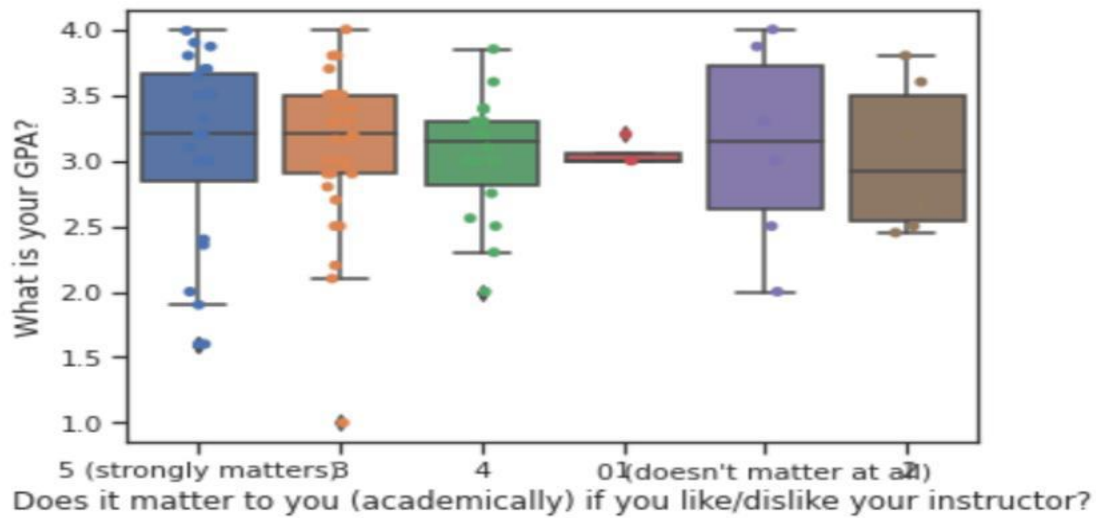
- Then, I asked about my population's faculty, and I discovered a bias which is 50.5% of my population were computer science students.



- Next, I proceeded to ask about the GPA to gain more information about my population. Most of the responses were high ranging between 3.4 and 3.9



- Lastly, I wanted to test the correlation between liking/disliking your instructor and the GPA to test my hypothesis. As shown below most people who voted that it matters to them if they like/dislike their instructors have high GPA



## Conclusion

The data I gathered supports my hypothesis as there is a correlation between GPA and students' feelings toward their instructors. Most of the GPAs in the correlation are high, so I conclude that students' academic performance is positively affected when they like their instructor.