COVID-19 Survey Student Responses

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In this report we will present a dataset analysis from a survey with Delhi - National Capital Region (NCR) students and how the COVID-19 pandemic affected their social life and mental health.

Introduction

The outbreak of COVID-19 affected the lives of millions of people around the globe, as many people were asked to self-quarantine and make social distancing measures to flatten the epidemic curve and reduce the number of cases.

The article in study was conducted to explore how COVID-19 affected the life of 1182 students from India. Students were surveyed on the time spent on online classes and self-study, medium used for learning, sleeping habits, daily fitness routine, and the subsequent effects on weight, social life, and mental health.

Methodology

In this project, we have used a dataset provided from the Kaggle platform, using the article "COVID-19 and its impact on education, social life and mental health of students: A Survey" from Chaturvedi [1] *et al.*

For the exploratory and data analysis we have used the Python programming language for all its benefits in data science. The libraries Pandas, Seaborn, Matplotlib and Numpy were used in this work.

Exploratory data analysis

To start, we explored to see if there were any missing values, nulls or inconsistent data. We have fixed several lines of data that were not given in numbers to describe the value zero. After that, we saw an outlier point in given answer, we checked and his data was inconsistent, so his data was dropped from the analysis and was not used in the dataset.

	ID	Region of residence	Age of Subject	Time spent on Online Class	Rating of Online Class experience	Medium for online class	Time spent on self study	Time spent on fitness	Time spent on sleep	Time spent on social media	Prefered social media platform	Time spent on TV	Number of meals per day	Change in your weight	Health issue during lockdown	Stress busters	Time utilized	Do you find yourself more connected with your family, close friends , relatives ?	What you miss the most
0	R1	Delhi-NCR	21	2.0	Good	Laptop/Desktop	4.0	0.0	7.0	3.0	Linkedin	1	4	Increased	NO	Cooking	YES	YES	School/college
1	R2	Delhi-NCR	21	0.0	Excellent	Smartphone	0.0	2.0	10.0	3.0	Youtube	0	3	Decreased	NO	Scrolling through social media	YES	NO	Roaming around freely
2	R3	Delhi-NCR	20	7.0	Very poor	Laptop/Desktop	3.0	0.0	6.0	2.0	Linkedin	0	3	Remain Constant	NO	Listening to music	NO	YES	Travelling
3	R4	Delhi-NCR	20	3.0	Very poor	Smartphone	2.0	1.0	6.0	5.0	Instagram	0	3	Decreased	NO	Watching web series	NO	NO	Friends , relatives
4	R5	Delhi-NCR	21	3.0	Good	Laptop/Desktop	3.0	1.0	8.0	3.0	Instagram	1	4	Remain Constant	NO	Social Media	NO	NO	Travelling

Figure 1: Dataframe obtained.

References
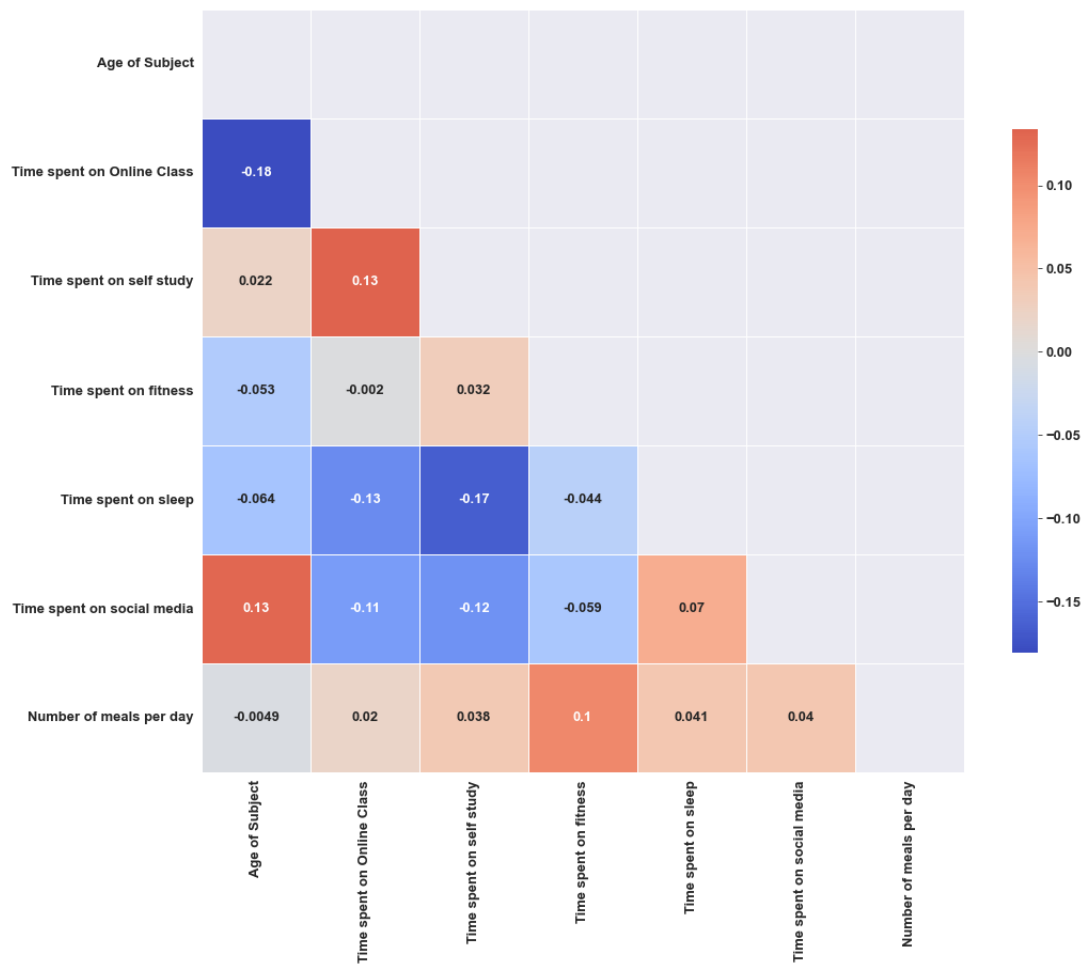
[1] Ott, E., Chaos in Dynamical Systems - 2nd Edition, Cambridge University Press, 2002.

Figure 2: Dataframe obtained.