Behavior Students and Learning Situation Online Class during Pandemic.

Data Mining Project Dbimbing Batch 4

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Introduction

Since 2020, students in Delhi-NCR and Outside Delhi-NCR have implemented an online learning system to anticipate the spread of the COVID-19 virus.

While doing online learning occurs its changes in daily routine including lack of outdoor activity disturbed sleeping patterns, weight issues, and self-learning due to this Pandemic.

Utilizing the Data Survey, we need to find out behavior students and learning the situation in Delhi-NCR and Outside Delhi-NCR

Data Introduction
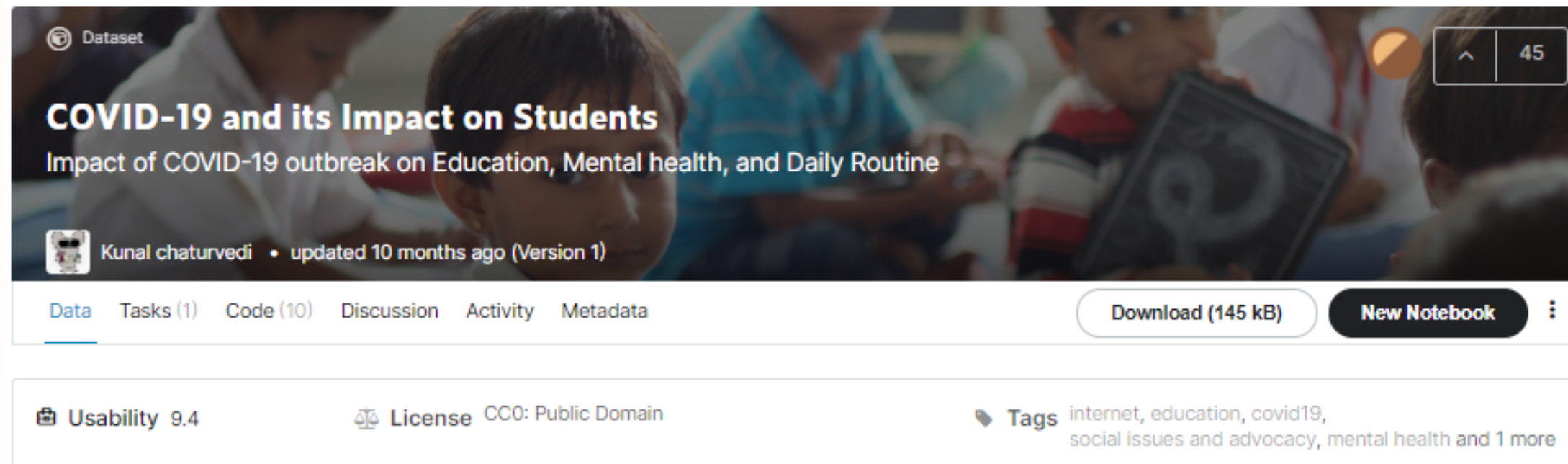
The Dataset contains behavior data, collected by
Kunal Chaturvedi

Business Question

1. What is the current situation during Online learning in the pandemic?
2. What are the eating patterns of students during Online learning during the pandemic?
3. How were students' sleep patterns during the pandemic?
4. Do students prefer self-learning over entertainment?
5. What do the students miss the most?

What is the current situation during Online learning during the pandemic?

Time Spent on Online Class by School Level

Time Spent on Onlince Class by Grade Level
use dropdown to change aggregation
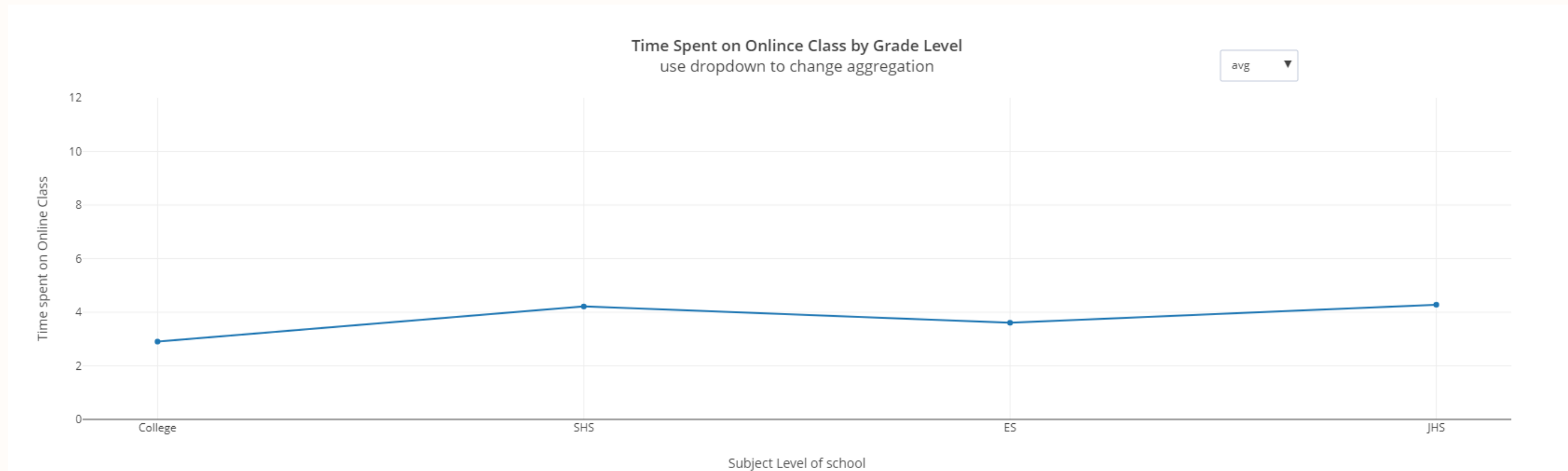
Based on the School level, students who spend the most time on online classes, it's JHS, have an average of 4.3 hours/day and SHS 4.2 hours/day.

The unique fact is, which colleges have higher school grades than others have the lowest learning averages. Maybe it can be related to the college learning system in the form of credits(SKS) and not during other school-level learning times.

What is the current situation during Online learning during the pandemic?

Time Spent on Online Class by Grade Level

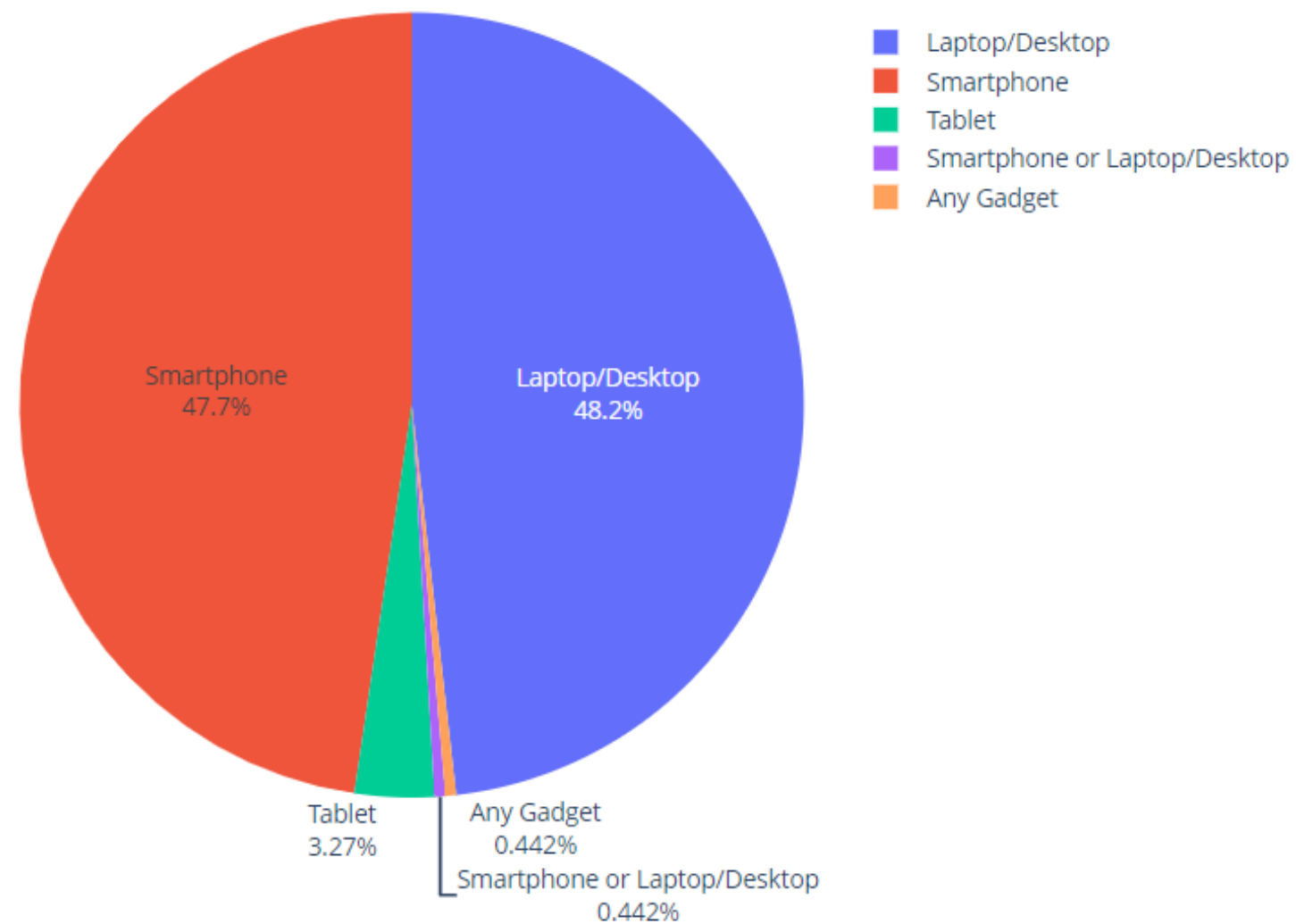Violin plot of Time Spent on Onlince Class by Grade Level

Using a violin chart, we can see the spread of the data. Even if they are in the same School Level. However, it can be concluded that every School level does not have basic rules in managing their students' online learning study hours. Because every student has a lot of time variations in online learning.
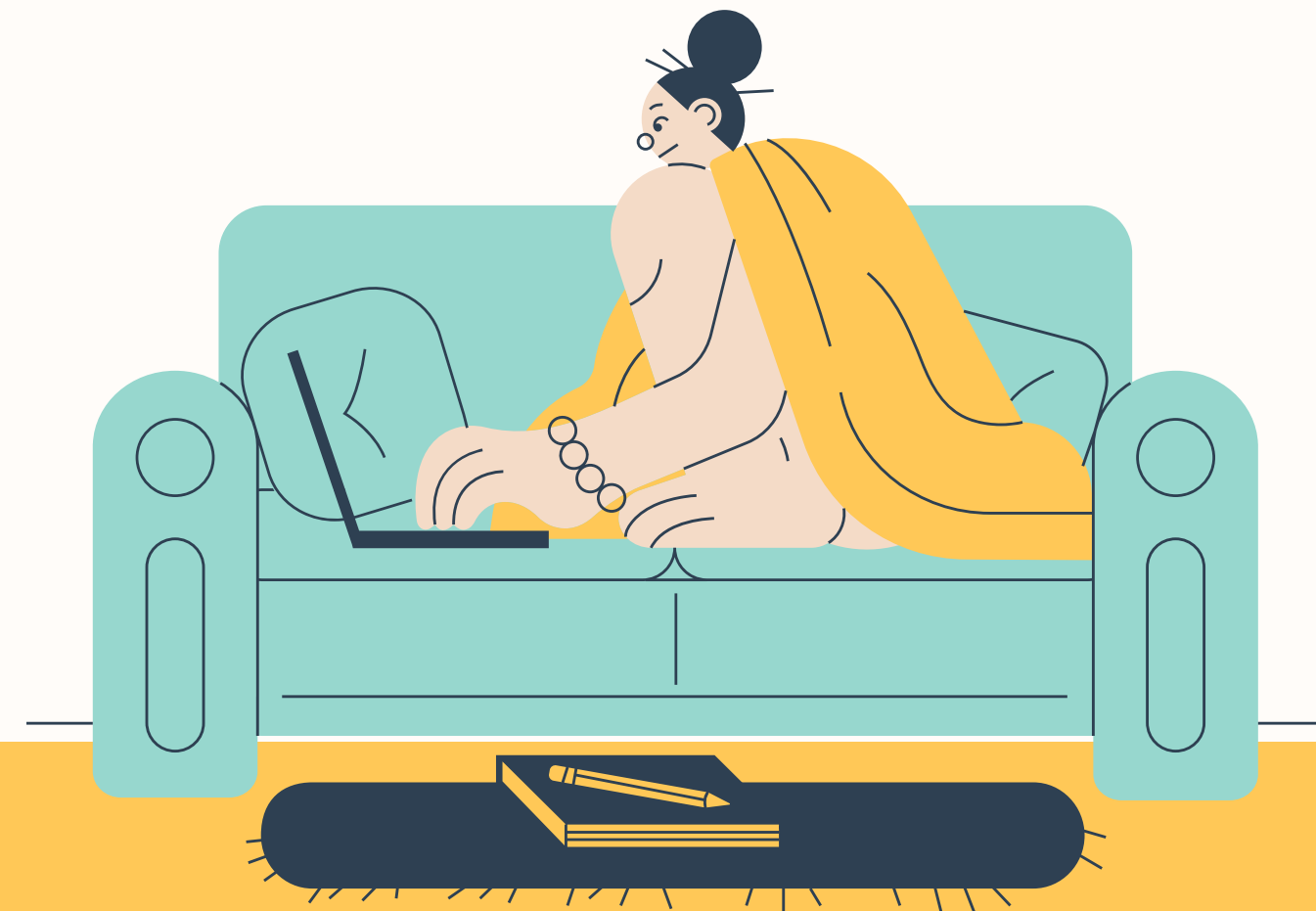
What is the current situation during Online learning during the pandemic?

Devices that students use during Online Learning

What devices they use for Online Learning?

- Laptop/Desktop
- Smartphone
- Tablet
- Smartphone or Laptop/Desktop
- Any Gadget

Smartphone
47.7%

Laptop/Desktop
48.2%

Tablet
3.27%

Any Gadget
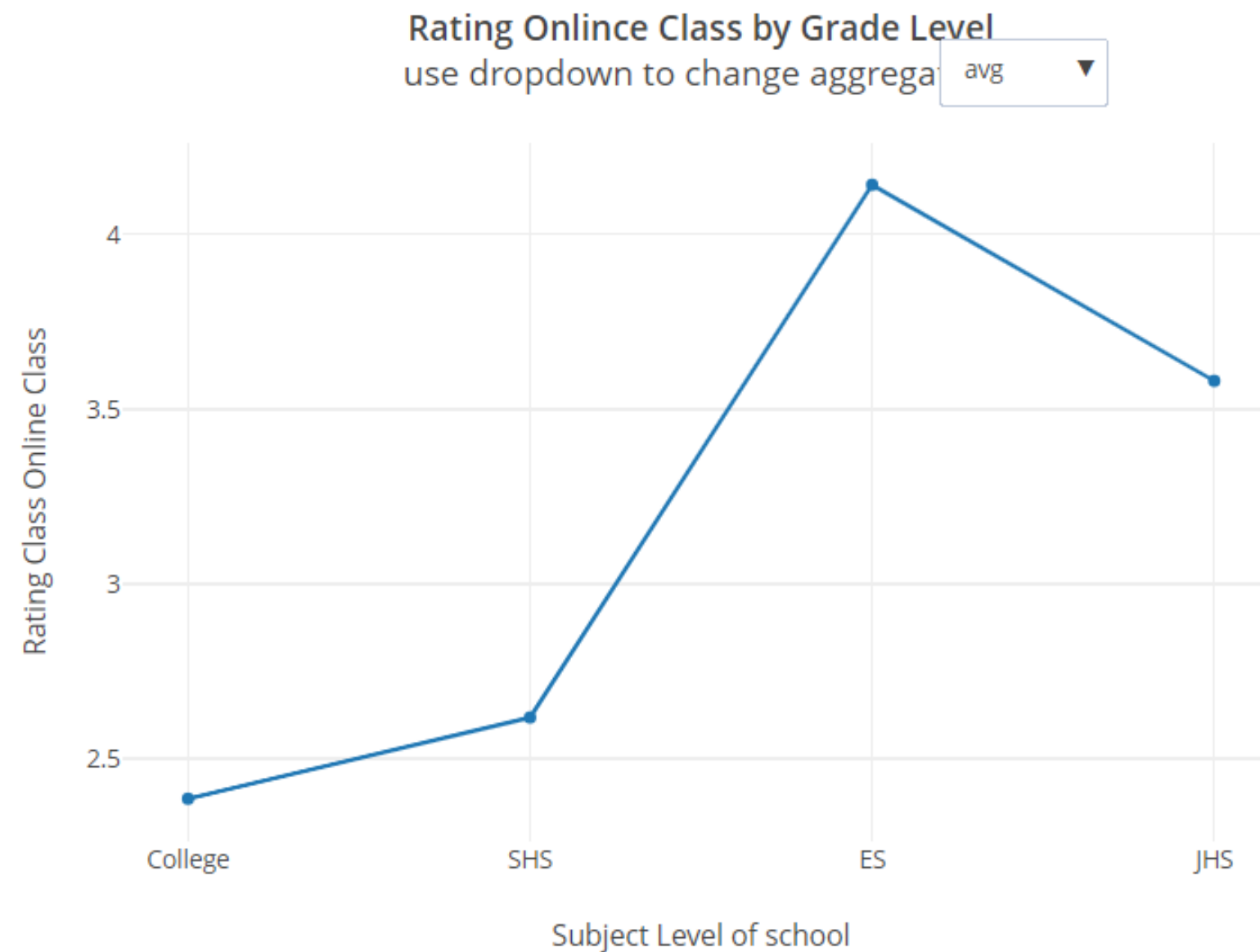0.442%

Smartphone or Laptop/Desktop
0.442%

Devices are one of the main supports in conducting Online Learning during the pandemic. There are two favorite devices of students in conducting online learning, Laptop/Desktop 48.2% and Smartphone 47.7%

What is the current situation during Online learning during the pandemic?

Rating Class by level of School

Rating Onlince Class by Grade Level
use dropdown to change aggrega | avg ▼

Rating Class Online Class (y-axis)

Subject Level of school (x-axis): College, SHS, ES, JHS

In giving rating classes during online learning, Elementary School students occupy the best quality positions in online learning and colleges get the worst rating.

it makes college student has worst Online Class quality, based on time spent of Online class, and Rating of Online Class .

What are the eating patterns of students during Online learning in the pandemic situation?

Students eating behavior during Online Class Learning

During a pandemic, students have a variety of eating patterns. However, still, ideally, they eat 3-4 times a day. The amount they meals per day also affects changes in student body weight. However, this change can also be affected by their Fitness activities during the pandemic (Time spent on Fitness)

How were students' sleep patterns by level of school during the pandemic?
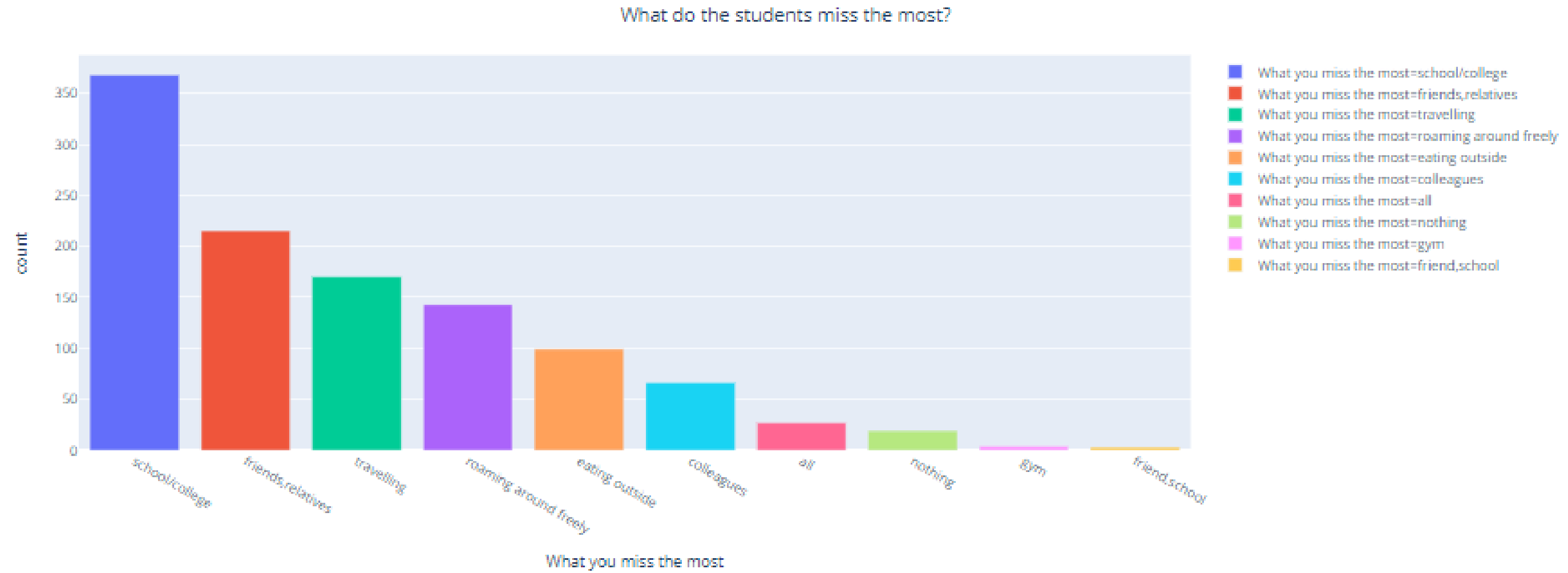

Students sleeping behavior by Grade School
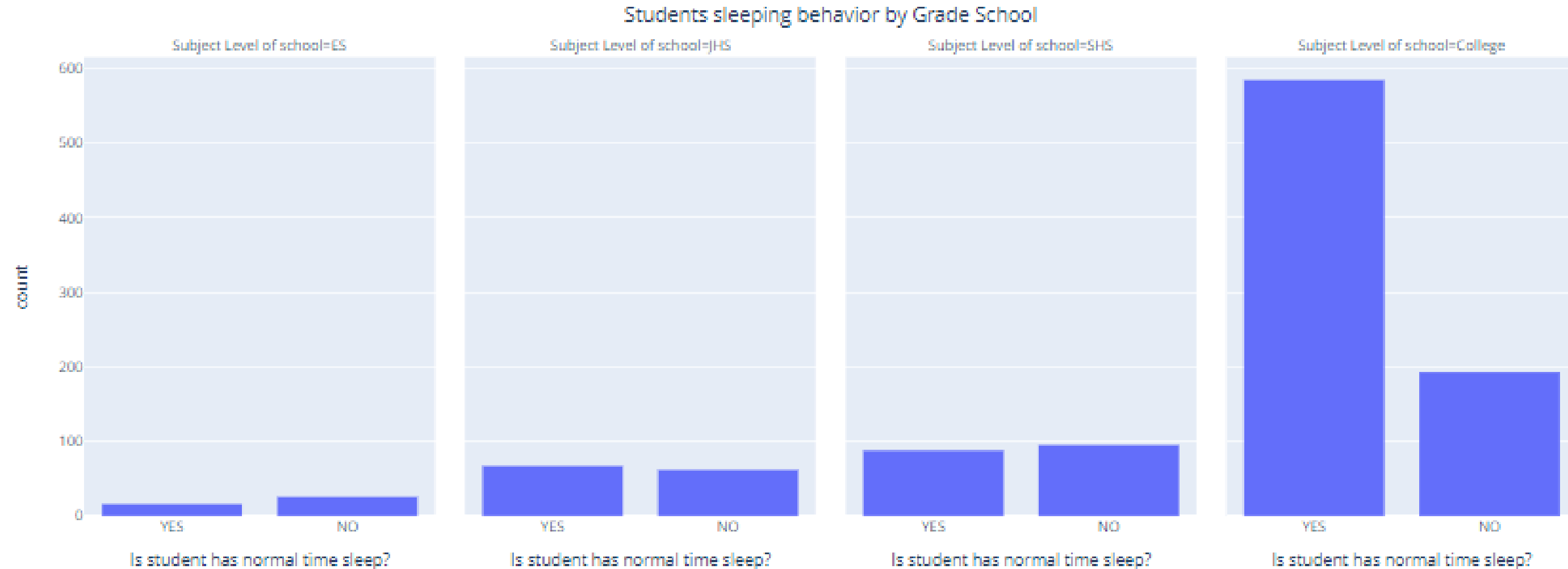
If we compare each level of the school, 61.9% of Elementary school Students have abnormal sleep patterns also 51.9% of Junior High School students' sleep hours have abnormal sleep patterns too are very much different from college students whose percentage is the largest in the pattern of sleeping normal hours.

Do students prefer self-learning over entertainment?
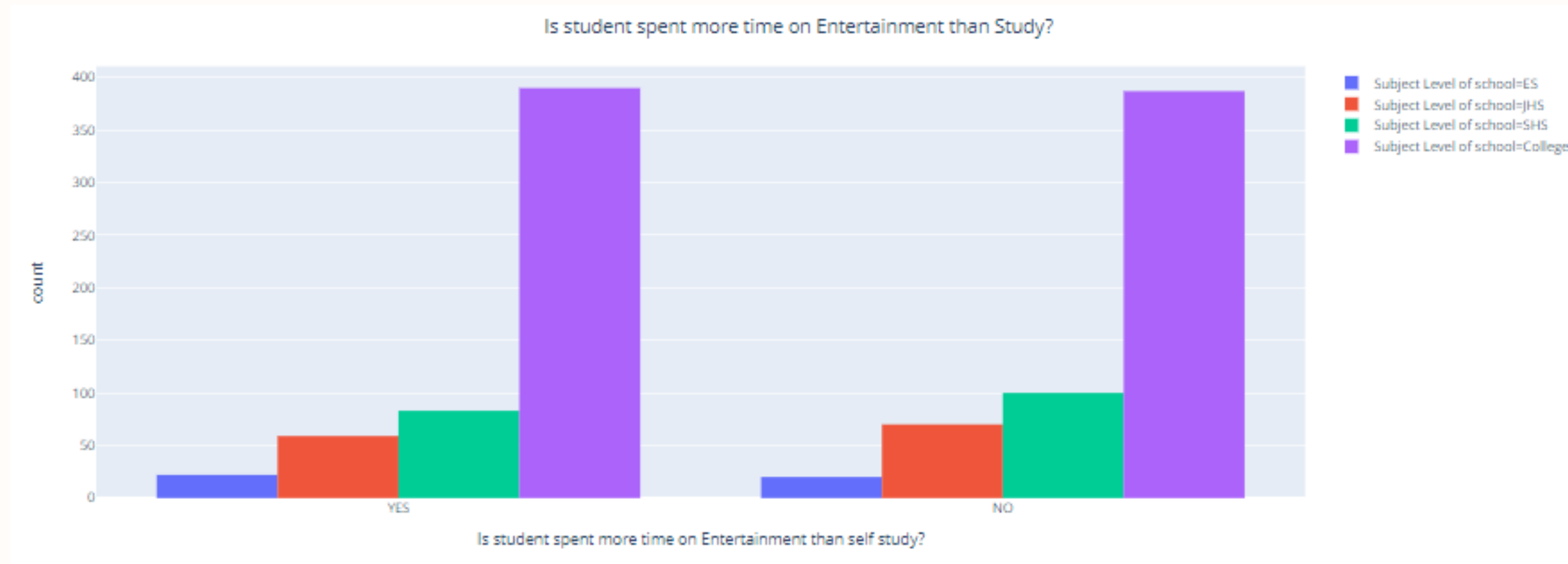
Students on each level of school prefer self-learning over entertainment but not significant. This means they need refreshing or entertainment such as playing social media and watching TV.

What do the students miss the most?

What do the students miss the most?

Legend:
- What you miss the most=school/college
- What you miss the most=friends,relatives
- What you miss the most=travelling
- What you miss the most=roaming around freely
- What you miss the most=eating outside
- What you miss the most=colleagues
- What you miss the most=all
- What you miss the most=nothing
- What you miss the most=gym
- What you miss the most=friend,school

The activity they miss most is going back to school and their friends.
This means that the offline school experience is more attractive to students than doing online school learning.

Conclusion

- In India, Online Learning still has a bad learning experience for some students.

- Even though students are busy online class learning, the majority of them still maintain their eating patterns.

- A small number of students have benefited from this Online learning during pandemics, such as a lot of study time, accustomed to using devices for online learning.

- Unfortunately, some elementary schools and junior high schools have abnormal sleep hours. Though the hours of sleep is one of the main things in the period of growth.

- Students really miss their usual activities before the pandemic such as going to school and interacting with friends. This also causes some of them to use their time to play social media and watch TV as their entertainment material.

Recommendations

01

If online learning continues for a long time, the quality of online classes must be improved and more attractive so that students do not lose their enthusiasm for learning it can be proper training of educators for the digital skills and improved student-teacher interaction must be conducted.

02

Preferably, there is a policy in regulating online study hours, especially for Elementary School students. They have excessive school time and this can have an impact on their sleep patterns because time is wasted studying in class.

03

Opened school activities are held in stages so that students can return to their usual activities if the average number of students has received the vaccination.