

# Effects of Online Class

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**Abstract** — As we all know that lockdown has been announced in the county due to coronavirus which has obstructed students in their studies. Therefore, the Education institutes had decided to take online classes which had affected the student's life and their thoughts towards studies. This study is focused on knowing the student's mental, physical and class performance condition and Their problems. Not only the students but their family condition is not good this may cause stress in students.

**-Authorized questionnaires are used in the Google Forms. Google forms are used for the collection of data. The forms were filled by 500 students. The students are from University of Liberal Arts Bangladesh. The data was analyzed with the help of google forms.**

## 1. INTRODUCTION

The major objective was to examine the effect of COVID-19 on the student's mental health. COVID-19 problem was raised in late December 2019 in Wuhan and Hubei provinces in China [1]. In February 2020, the World Health Organization designated the disease COVID-19, which stands for coronavirus disease in 2019. The virus that causes COVID-19 is designated severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2); previously, it had been mentioned as 2019-nCoV[2]. The distribution of viruses from one place to another is called epidemiology. It is a large group of viruses. It consists of genetic material surrounded by an enveloping protein spike. It has many types that damage the respiratory system and gastrointestinal system. The symptoms are cough, pneumonia, fever, and shortness of breathing and sore throat. Besides its worrying effects on human life, the novel strain of coronavirus (COVID-19) has the potential to significantly slow down not only the

Chinese but also the worldwide countries. In the absence of a vaccine, social distancing has emerged as the most widely adopted strategy for its mitigation and control [3]. We need to count on classical communal health measures to curb the epidemic. The primary goal of such public health measures is to prevent the person-to-person spread of disease by separating people to interrupt transmission. The tools we have are isolation and quarantine, social distancing and community containment/Lockdown. Community containment/Lockdown is an intervention applied to an entire community, city, or region, designed to reduce personal interactions and movements. Such interventions range from social distancing among (such as cancellation of public gatherings, school closures; working from home) to community-use of face masks to locking down entire cities or areas(cordon sanitaire)[4] 'Social distancing' is intended to reduce interactions between people in a broader community, in which individuals may be infectious but have not yet been identified hence not isolated.[6] As the government had left with no choice

instead of implementation lockdown in the country. The first step taken by the government was to close the school and college of the country and empty the hostels. Due to this, every student has to rush out towards their hometowns and their home states in very short notice which has given stress to students as well as to their parents for their safety while traveling. In few days nationwide lockdown was announced so the education body decided to take online classes to carry over the education system in the country. A study conducted by the Institute of Medical Education/National Center for Health Professions Education Development, Peking University, Beijing, China says that online studying is as effective as an offline study but with proper materials and design.[5] Due to lockdown none of the education bodies got a proper time to maintain the system of online classes and students were also not prepared to take online classes this result creating stress in students.

**2. Objective:** This study aimed to know the mental condition and stress in students caused due to threat of COVID-19.

### 3. Methodology

#### GOOGLE FORMS

Google Forms is a tool that lets users collect data from users via a personalized survey or quiz. The information is then collected and automatically associated with a spreadsheet. The spreadsheet is populated with the survey and quiz answers. The Forms service has undertaken several updates over the years. New features include, but are not restricted to, menu search, the shuffle of questions for randomized order, limiting responses to once per person, shorter URLs, custom themes, automatically generating answer suggestions when creating forms, and an "Upload file" option for users answering questions that require them to share content or files from their computer or Google Drive

#### 4. DATA COLLECTION

Google forms were made with the question of stress assessment questionnaires. Google forms were sent to 250 students of ULAB and were asked to fill the

forms. The consent was also taken from the students to use their data in the study with the help of questions the google forms.

### 5. Eligibility

#### Inclusion criteria

- Students of different departments.
- The student with mental stability.

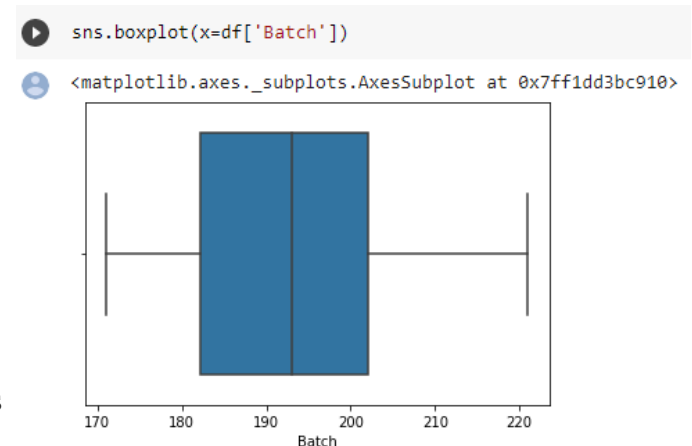
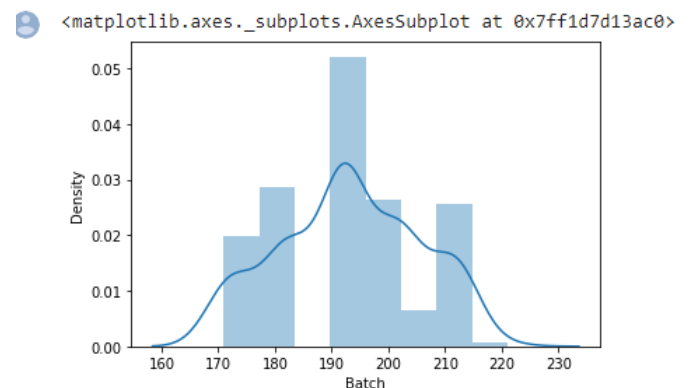
#### Exclusion criteria

- Students with a part-time job.
- NO self-studying students were taken.
- The student with depression and anxiety.

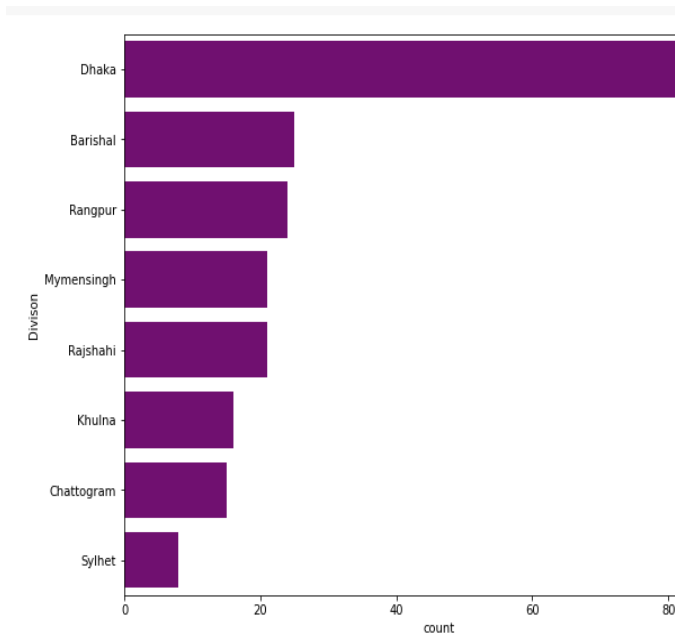
### 6. Result Analysis

Every experiment had a nearly identical overall performance. In the majority of situations, we attain nearly perfect Precision, Recall.

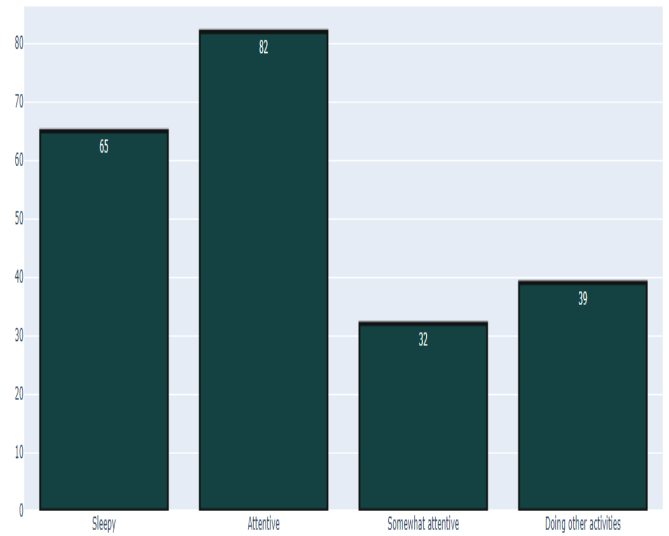
This data analysis of overall performance is included below.



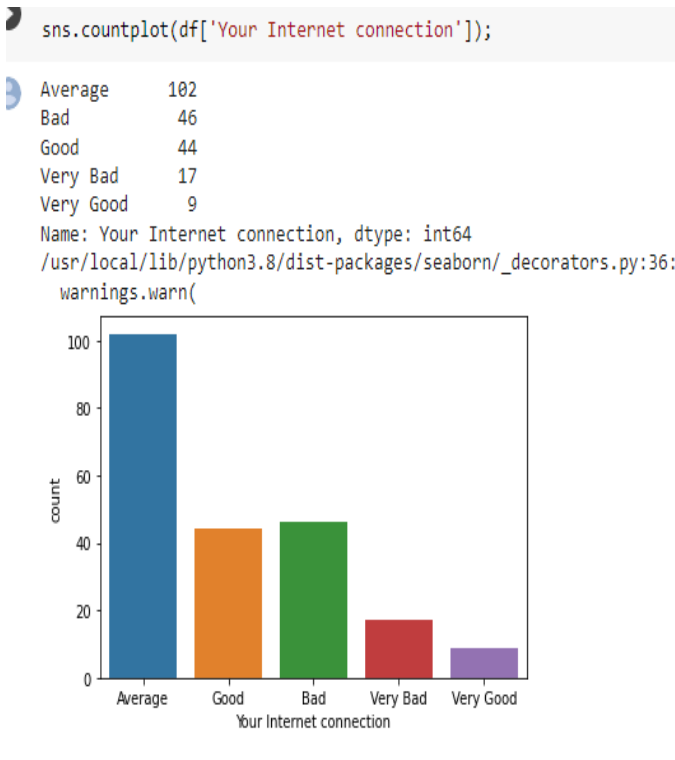
### 6.1: Number of batch graph



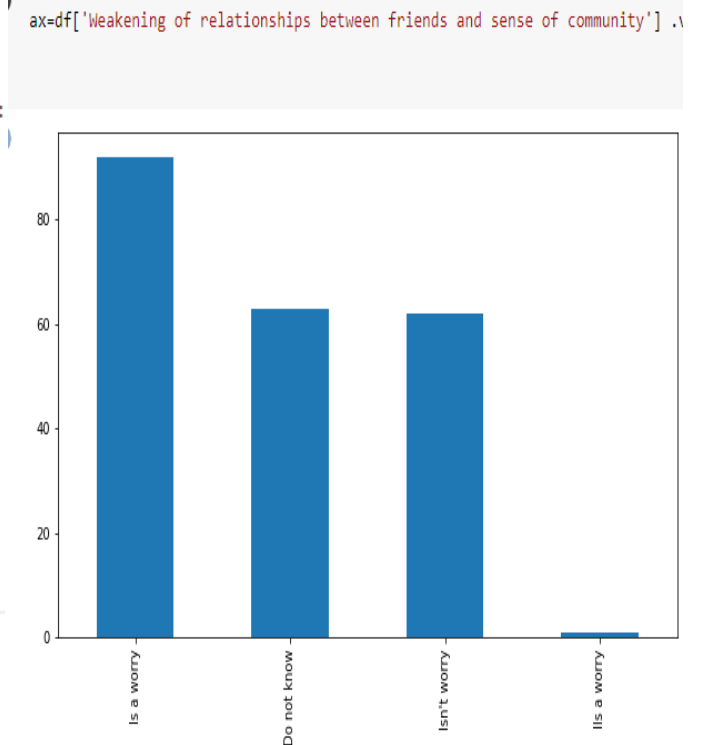
Students participation during lecture



### 6.2: District wise performance

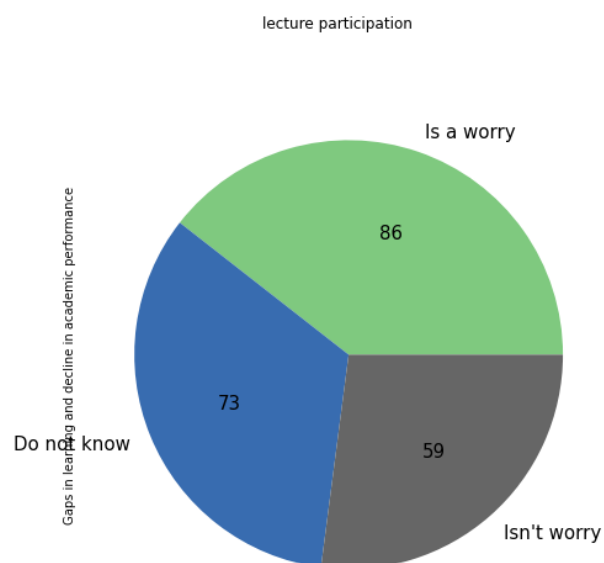


### 6.4: student participation during lecture



### 6.3: Internet connection performance

### 6.5: Relationships between friends and sense of community



## 6.6: Lecture participation

## 7. CONCLUSION

Better learning experiences are likely to have a significant impact on society's well-being, and the findings of this study suggest how student learning experiences can be improved in online classes. Furthermore, this is particularly useful when many face-to-face classes were forced to switch to online classes abruptly during the COVID-19 pandemic as many students, parents, and educators were concerned with online learning experiences. The present study concludes that most of the students are suffering from stress for their studies. Online classes had increased the stress on the students.

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