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# The Study of Impact of Digitalization in Education System

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ABSTRACT:

The world is continuously getting evolved due the development in modernization & advancement in technology. People nowadays are moving towards use of technology more for almost every task to be done easily and quickly. This leads to the use of digitalization in every sectors. Therefore, we have already entered into the era of digitalization in education sector too. As a result, we are continuously updating in digital education from last two decades, but after the pandemic COVID-19 this digitalization in education sector is on booming. This resulted into the vast use of technology in teaching, learning and educational administration too. Digital education is the combination of technology, digital content & instructions in education system which made it more effective and efficient than the traditional learning. Along with the lots of positive impact, we are dealing with some hurdles too in educational digitalization. Hence, this paper addresses the impact of the digital learning technologies among students and teachers which has been highly in practice at present. In this comparative study we are aim to find out the pros & cons of digitalization in education.

KEYWORDS: Technology, Education system, Digital learning, Digital education, Impact

## INTRODUCTION :

In this dynamic world, there is continuously encouraging and promoting the changes in every field. Education is integral part of countries development and growth in almost all sectors. It is the base to generate and retain the knowledge and its resources. Therefore, quality and medium of leaning matters a lot these days. In developing country like India, we are getting more forward in digital education & learning. In the process of digitalization in education we come across with several positive as well as negative impact too. This may or may not hampers the progress of students. After the pandemic of Covid-19, we are exemplary moving towards digitalization of our education system. Due to this, we are experiencing vast advancement in learning & teaching methods. In this paper we will discussing about changes in education system, its impact and necessary implementations. Here we are illustrating the context of digital education, its current state, the anticipated outcomes and concern in this regard. The following paper discusses about the opportunities, threats and challenges involved in delivering digital education.

## LITERATURE REVIEW :

Suleiman, Muhammad. and Danmuchikwali, B. 2020. Digital Education: Opportunities, Threats, and Challenges
In the study, they have explained the several concept of digital education which includes:

- Education, teaching and technology
- ICT
- Digital education
- Virtual learning
- Online learning
- Blended learning

As an education plays a very vital and important role in human growth, new innovative methods significant influences the process education. This creates new opportunities in a path of growth. Several digital tools and platforms immensely affect the digital education positively. Although digital education has important strength and improve the quality of education, it has several limitations in a way such as:

- Knowledge of digital platforms
- Lack of teacher student interaction
- It is not suitable for practical courses

They have discussed and explained the various factors that affects and influence the digital learning. According to their report, e-learning has many benefits that helps students to learn effectively. As every good thing has some drawback, it has too. These limitations may or may not affects to everyone but can be counted.

Agarwal, R. 2021. Digital Education in India: Scope and Challenges

In the study, they have explained various advantages of digital learning in the traditional Indian education system. This follows enhance learning, lack of physical boundaries, no geographical limitations, comfort zone to learner, vast scope of learning, may be cost effective. They have also discussed some of demerits of digital learning such as addiction to electronic gadgets, physical fitness being affected, lack of expressiveness, shortfall of focus and concentration. In the conclusion of report, they have stated that in the current era, digital learning is need of hour. In the rapidly growing environment, it plays a very useful importance. While in the process, we encountered with few limitations and challenges which are important to look upon. If we can successfully find a way to overcome these problems then there will be new height to e-learning and digital education.

Eswari, M. and Sujana, S.V.M. 2021. A Study on impact of digital learning among students
In a report, they have concluded that students are accepting the fact that digital learning helps them a lot. Along with the benefits they are facing few challenges such as network connectivity, lack of concentration and physical inactiveness. Students are exploring to new things which are proven to be useful in a way. According to their study, in upcoming years education system have to face drastic changes due to increase in digital learning.

Sharma, M. 2021. A Study on Digital Transformation and Its Impact on Education Sector
In their study, they conclude that due to the digitalization, learners are doing work more effectively. In the report, they said that digitalization has much more advantages than its drawbacks. With the increasing innovation we have to deal with challenges arise by it too.

## RESEARCH METHODOLOGY :

The Rationale of the Study:
This study is carried to find out the impact of digital tools in learning and education. The study showcases the influence of e-learning platforms, tools, gadgets, methods etc. and how it affects the students and teachers. This made the investigators more curious about new changing dynamics in education system. After the detailed analysis and comparative study, we can aim to find out the possible & implementable solutions & suggestions for having new innovations and to solve the barriers. This made researcher to intends the study on this particular topic.

### *Objectives of the study:*

1. To understand the current scenario of education system.
2. To understand and analyse the upgrading dynamics of learning pattern.
3. To find out the challenges and issues that students and teachers are facing while using digital learning platforms.
4. To try to find out the possible solutions for the problems.
5. To study the role of other influencing factors in digital learning & teaching.
6. To analyse the future orient projects and innovations in education system.

### *Data Collection Method:*

Primary data collection method: Primary data was collected by the researcher in form of a survey. In this survey data was collected with help of questionnaire floated in google form. In sampling design "snowball sampling" method was used to collect the data from targeted audience.

**SAMPLING METHOD:** Convenience Sampling method
**SOURCES OF DATA:** Internet
**SAMPLE SIZE:** 150 people
**INSTRUMENTS:** Questionnaires

### *Limitations:*

➢ Sample size was limited to 150 people only
➢ People may or may not be genuine while responding
➢ Geographical area restricted to Nagpur region only
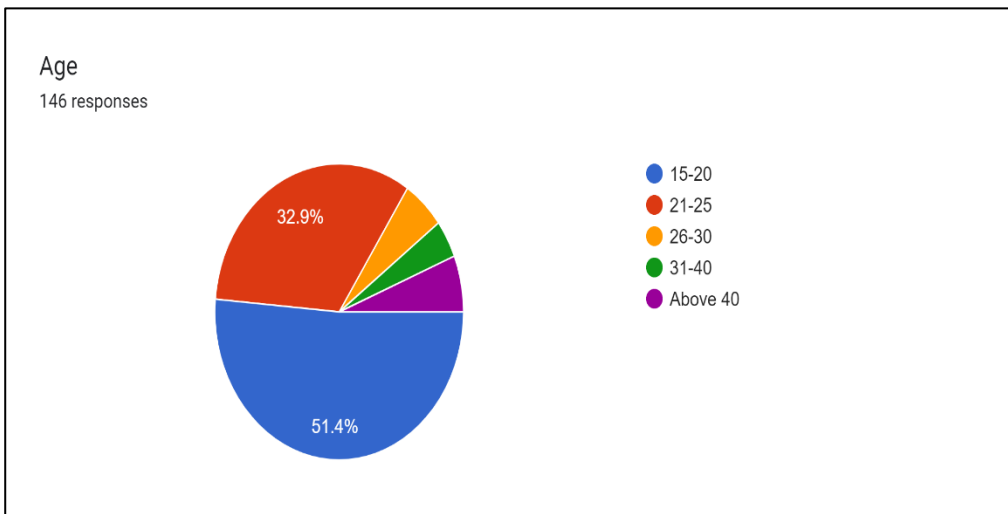
## DATA ANALYSIS/DATA INTERPRETATION :

E-questionnaire in google form was circulated through different social media. Sample size was 150 people of different schools/colleges of different streams and age groups. From this sample of 150 students, 146 students have responded. In our survey, some questions which were circulated and analysis of collected data are as follows:
DEMOGRAPHIC FACTORS:

**Age distribution of survey**

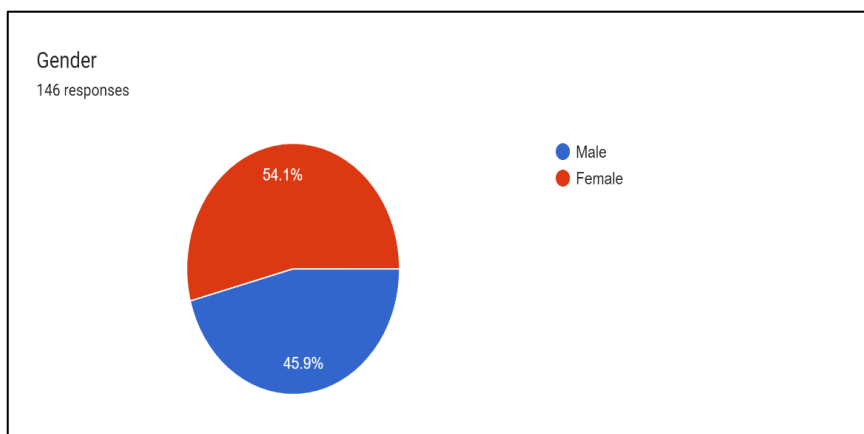| SR NO. | OPTIONS | NO. OF PEOPLE RESPOND | PERCENTAGE |
|---|---|---|---|
| | | | |

| 1 | 15-20 | 75 | 51.4% |
|---|-------|----|-------|
| 2 | 21-25 | 48 | 32.9% |
| 3 | 26-30 | 8 | 5.5% |
| 4 | 31-40 | 6 | 4.1% |
| 5 | 40 ABOVE | 9 | 6.2% |
|   | TOTAL - | 146 | 100% |

Age

146 responses



In a conducted survey, majority of people who responded are of age group of 15 to 25.

51.4% are of age group 15-20, 32.9% are of age group 21-25. Remaining are above 26 years.
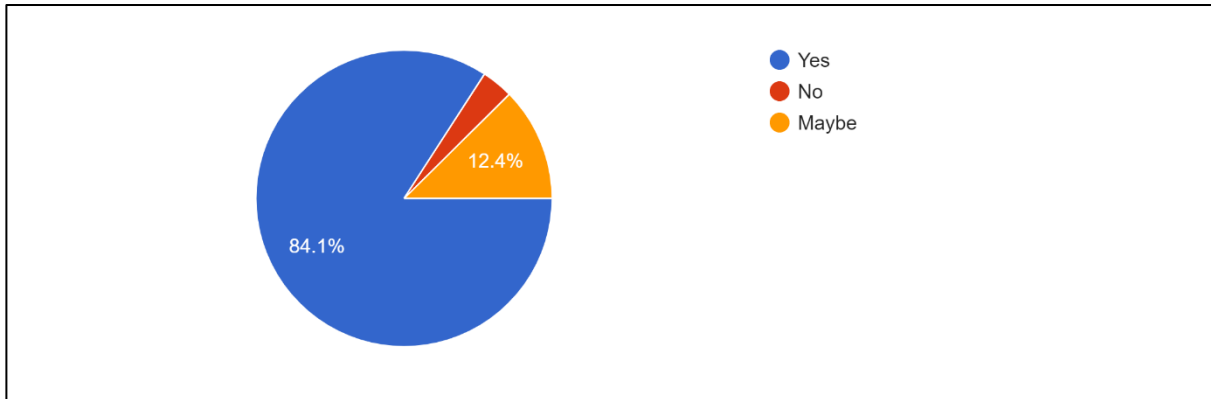
Some are above 40 years too.

**Gender distribution of survey respondents**

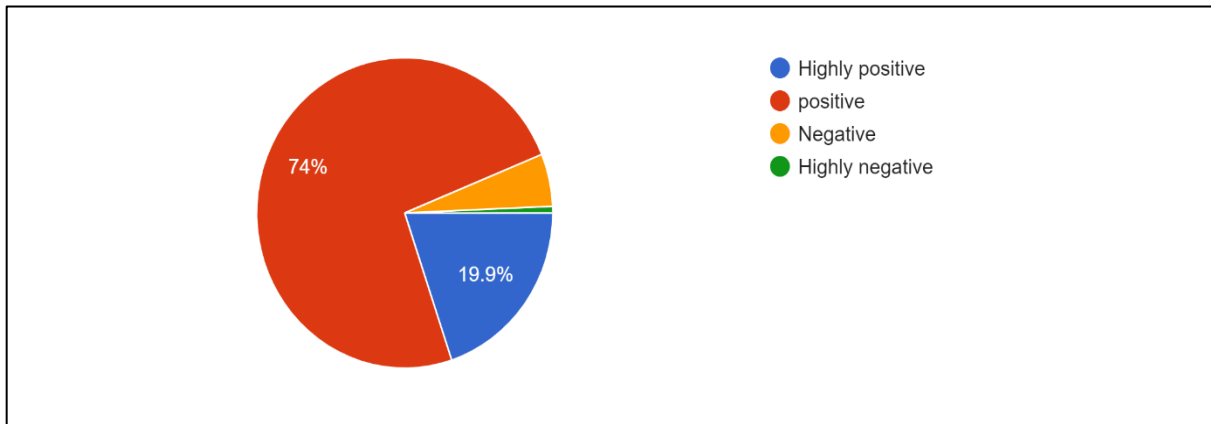| SR NO. | OPTI0NS | NO. OF PEOPLE RESPOND | PERCENTAGE |
|--------|---------|-----------------------|------------|
| 1 | MALE | 67 | 45.9% |
| 2 | FEMALE | 79 | 54.1% |
|   | TOTAL - |  | 100% |

Gender

146 responses

Number of people respondent has both males and females.

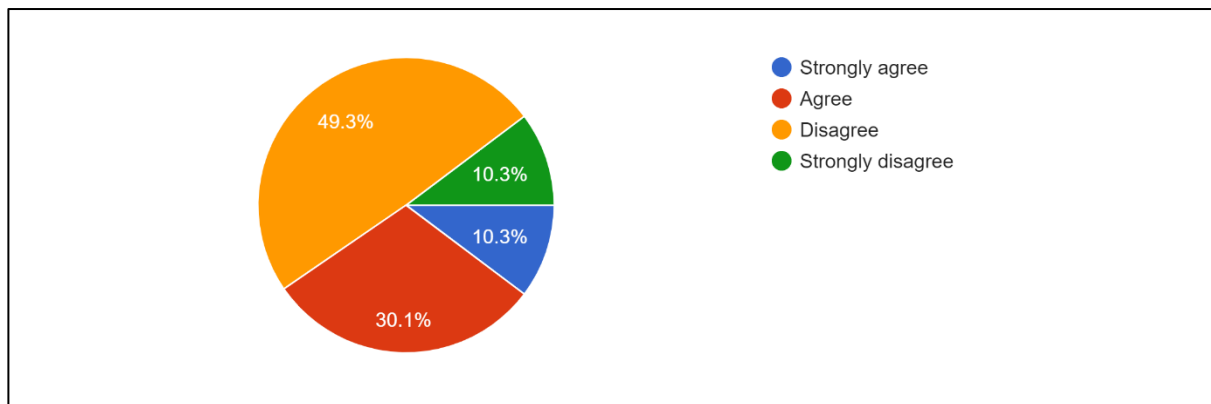*Do you feel that digitalization has impact on education?*



As stated in above graph, around 84% of people from total respondents agree with the fact that digitalization has hugely impacted on education. And about 12.4% people are biased in their opinion. And only 3.4% of people things that it not at all impacted.

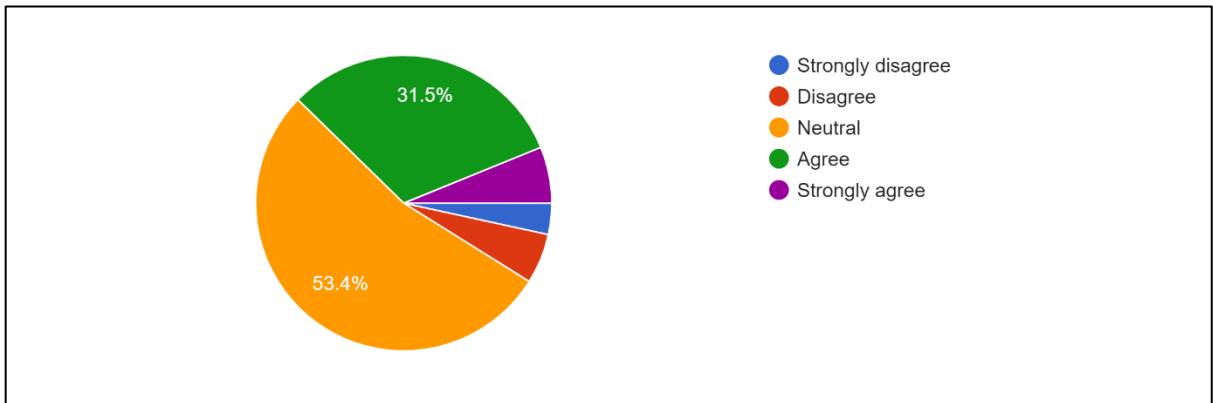*According to you, what kind of impact has digitalization on education and learning?*



While doing the survey, we came to know that people think that digitalization has positive impact on education. Around 74% of total surveyed population agree with this. 19.9% people think that it has highly positive impact. While 5.5% disagree with this.

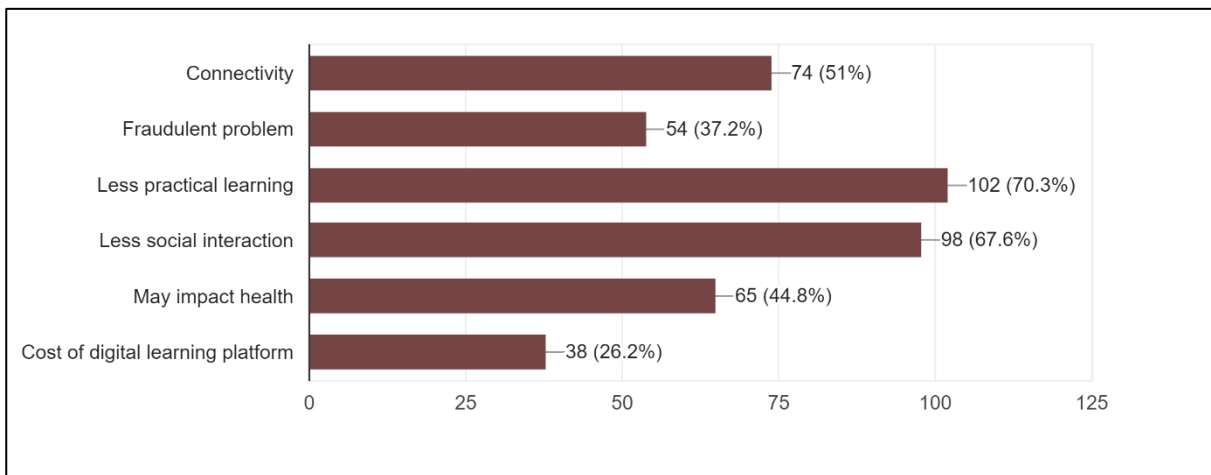*Do you feel that e-learning/online learning is better than offline learning/ face to face learning?*



From the above graph we can say that majority of people think e-learning is not better than offline learning. Data say 49.3% people agree with that offline learning is better than online learning. Around 40.4% say that digital learning is more useful than face to face learning. While only 10.3% say that digital learning is not at all useful as compared to offline learning.

*Does digitalization have positive impact on personalized learning?*



From the above data, we can analyse and say that many people are having neutral opinion on digitalization and its impact on personalized learning. Almost 53.4% are not sure about this fact. While 31.5% agree that it has impacted and influenced personalized learning. And only 5.5% disagree with this fact and say it doesn't have positive impact on it.
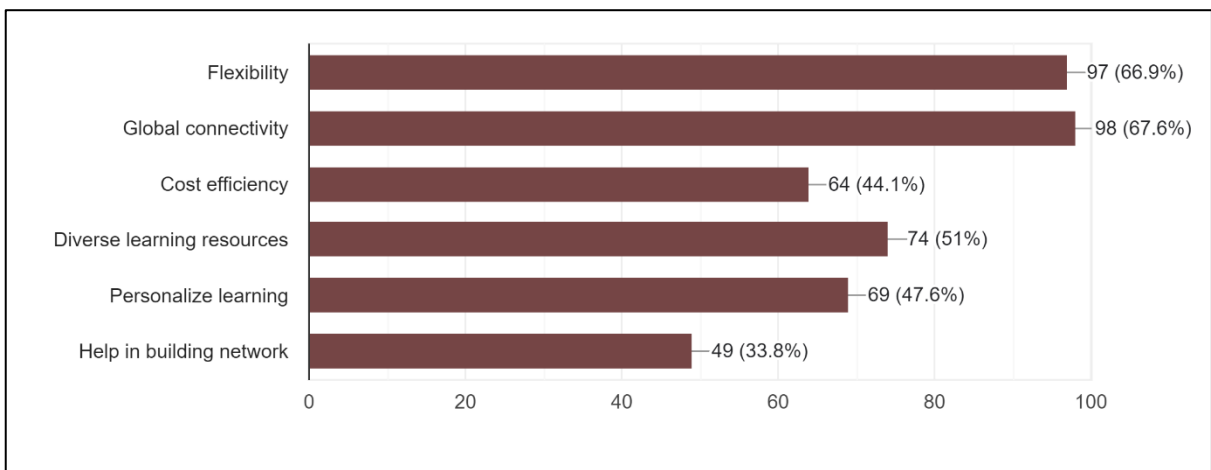
*what are the barriers in digital learning?*



As shown in above graph, following are few barriers in digital learning:
- ✓ Connectivity
- ✓ Fraudulent problem
- ✓ Less practical learning
- ✓ Less social interaction
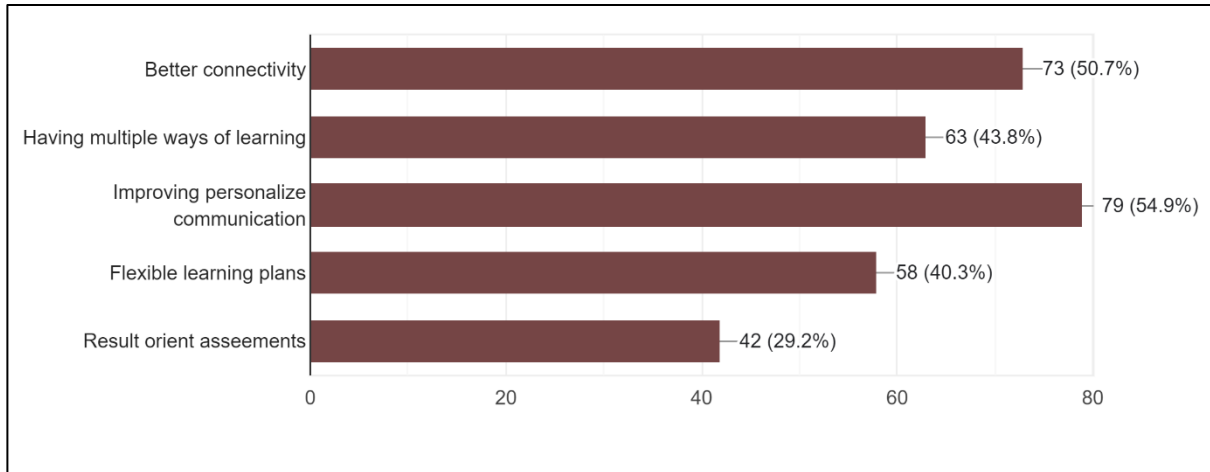- ✓ Impact on health
- ✓ Cost ineffective

*What are the benefits of digital learning?*

According to people as compared to barriers, there are more benefits of digital learning. Few are as follow:

- Flexibility
- Global connectivity
- Cost efficiency
- Diverse learning resources
- Personalize learning

*What improvements can make in digital learning?*



As people suggested, following could be improvements in digital learning:

- ✓ Better connectivity
- ✓ Having multiple ways of learning
- ✓ Improving personalize communication
- ✓ Flexible learning plans
- ✓ Result orient assessments

## FINDINGS AND CONCLUSION :

In our study, we try to understand that how digitalization has impact on education. Due to the limited sample size, we are bounded with the responses. In our research, we categorized age group between 15-20 years, 21-25 years, 26-30 years and 31-40 years and above. These responses are taken from students, teachers and some parents of students.

In our study we have found that, in this developing and upgrading era, digitalization has a huge impact on many things. Similarly, it has influenced on education system too. Involvement of digital tools and technology is education process has improved the quality of learning. In the study conducted, we came across with many facts about digitalization and it impact on education. From the data collected through internet and survey, we found that education system has change in this modern era. Digital education has made learning process more effective and has numerous benefits. As every good thing has some limitations or drawbacks digitalization in education has it too. According to the study, it improves quality of learning, vast scope to explore, removes the geographical boundaries and many more. Along with the benefits digital education has some limitations too, these limitations may or may not be same for all.

While analysing the responses, we have seen that people who are in education sector are using digital tools. And from overall study we can conclude that digital education has somewhere positive impact on learning process. While encountering few drawbacks we are moving towards new innovations and upgradations and these drawbacks can be solve with proper plans and implementations.

REFERENCES:

1. Suleiman, Muhammad. and Danmuchikwali, B. 2020. Digital Education: Opportunities, Threats, and Challenges
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5. Impact on Education Sector