A Study on Impact of Digitalization on the Education in India

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Abstract

Technology has affected every aspect of daily life over the past few years - from personal interactions with business to our school systems and to the way we learn something new every day. To see how quickly technology has developed over the past decade, humanity will still see the best in it. In the digital age in which we now live, technology plays an important role. The Objective of the paper is to analyses the role of technology in present and future education. The data was collected from the secondary source. Technology helps both teachers and students and technology is leading to rapid educational change.

Keywords: Education; Technology; Digitalization; Teacher

Introduction

Digital education is a flexible way to transfer knowledge, especially as it balances the field for all students. The theme of digital literacy in education has attracted worldwide interest because of the unprecedented skills offered by technology to capture the 'digital tricks' of today's students, 'indigenous digital people', who are active in the richest learning environments. India is home to the largest number of children in the world, with an estimated 430 million children in the age group of 0-18 years in the country. The state of education in the country, especially in the rural areas, is dire as there are already challenges such as traditional teaching methods, teacher shortages, student and teacher inequality, and educational resources plaguing the sector. In this context, digital skills and competence are essential to achieving professional success and personal development for anyone. The inclusion of digital in education helps to alleviate all these concerns by providing multimedia teaching materials for teachers and engaging students in learning methods that use digital tools, such as smart boards, LCD screens, videos, etc. It also makes it possible for single teachers to deliver information remotely in a few places, through interactive digital media addressing the shortage of teachers in the country.

Education has greatly improved from its previous forms of memorization to the present day with new trends leaving a lasting impression on young minds and technology has a major role to play, here. Technology has affected every aspect of daily life over the past few years - from personal interactions with business to our school systems and to the way we learn something new every day. To see how quickly technology has developed over the past decade, humanity will still see the best in it. In the digital age in which we now live, technology plays an important role. With each passing day, new software or gadgets are introduced to the technology market that improves our lives in some way and makes us more comfortable.

The method of education has not been the same, and it has changed continuously; initially, there were no textbooks or textbooks, students often read whatever their teacher used to teach the class itself. After the introduction of paper and pen, gradually the process went smoothly and today we have technology in our new learning mode. The technology introduced in the classroom helps students to understand and learn what they are being taught.

We have long criticized our education system for lacking effective learning methods or skills-based learning. Technology-based education seems to be one step closer to transforming education for the better. Technology and education are a good combination when used with the right reason and perspective. Toddlers these days find it early in technology when they start using their parents smart phones, tablets, laptops even before they learn to talk. Therefore, providing technology-based education from their earliest stages is a good idea.

However, through the use of technology, mass education can be provided and the current situation can be changed. Classroom lessons in one place, can be recorded in real time and can be used to teach students who cannot attend these classes. This would be a good option as rural people are more attracted to technology and the dropout rate can be reduced. Currently, new materials used to enhance and facilitate learning can be found in abundance. One can safely say that, we have embraced the technology in education where it is used for both teaching and learning, the main goal left to change the way teachers and students collect, access, analyze, present and transmit information.

Technology in education:

The technology used in the classroom is very beneficial in helping students understand and grasp what they are being taught. For example, as there are a number of visually impaired students, computer-assisted display screens can be installed in the classroom so that students can see their notes instead of just sitting and listening to the instructor teach.

There are many excellent apps that can be used to add a classroom curriculum. The programs make available student inquiries, tests, activities and study questions that can help students continue the learning process after class.

Today, technology is incorporated into well-developed curricula and even non-technical and computer classes. Students use computers to come up with presentations and use the internet to do research on various topics in their articles and papers.

Students also learn how to use the technologies available in the world today through technology and computer classes. This guarantees that after their graduation, students will not have to struggle to use technology in the workplace, which can make them more competitive compared to someone who does not have access to a particular software or technology at school.

With the progressive development in the technology world, students gain improved access to such educational opportunities. Every time something 'better' and 'new' is brought to market, the price of available technology drops, making it more accessible to the education system, even those schools that may not have the many financial resources available. .

Technology has grown so much that it is still available today to help those preschoolers. There are plenty of educational programs and video games for young children that help prepare them for school and in many cases also provide a start to their education.

There are a number of people who are of the opinion that technology will 'ruin' children. For example, instead of sitting down and being able to count, they will choose to get a calculator. Despite the fact that there are people who make these conflicts, technology is still a very important part of the society in which we live today. By introducing it to our schools and classrooms, we will ensure that students are equipped with the best tools and knowledge to make it easier to get from school to work. We need to face reality, technology is a 'thing' in the world today and it is needed in every aspect of our lives and education without a doubt has not been abandoned. It is very helpful in providing additional information to our students and making them competitive in the job market.

Role

The role of technology in education is enormous. Student learning process becomes easier as technology progresses. Technologies used in schools and colleges such as having computer labs, the use of high-tech equipment and tools make it easier for students to understand concepts. Practical knowledge of students develops as they see things happen. It is easier for them to associate theory with practicals. There are also educational games that prepare young children for school. Most of the ideas come when they see animated images and when their favorite cartoon characters are used. Technology is a boon to the education system.

Smart classes

The ordinary class was once seen with students sitting during teacher's hour. Now it is slowly changing. More than 12000 schools in 560 districts of India have recently received smart classes. This means that classrooms use technology by having digital learning tools, such as computers, printers, projectors etc. 'Eyes that work beyond the ears' is a sign that causes widespread use of these tools. Digital learning is easy to use, self-explanatory and makes the process very attractive. The use of pictures makes the concepts of complex subjects such as Maths, Biology, Chemistry, Physics easier. It increases engagement with student motivation and speeds up learning.

Student's immediate access

Even for toddlers, digital learning / technology involves the use of all their senses while learning how to play. Technically, teachers, students and parents have a variety of learning tools in their hands. Here are some of the ways in which technology has improved education during "the time. Technology supports 24×7 learning and builds 21st century skills. Increase study offerings and study materials. Teachers are now able to connect with others around the world, meet the shortcomings of their work, and thus give their students the best possible outlet. Technology provides students with instant access to a wide range of advanced information, leading to faster learning.

Online education

Online education has now become official and has changed the way we view education. Students, even professionals, can take it as part-time, or full-time courses, so that they can progress anywhere and anytime. What is popular in such education is the practice, where students watch recorded instructional videos and create extended classroom communities for discussion or visual classes etc. It eliminates travel time and student travel expenses.

Technology based education

In India many companies are coming forward to provide technology-based education with customized settings. To name a few such as NIIT, IL&FS, HCL Infosystems, Tata Interactive Systems etc. Even parents want the best for their wards and are not afraid to pay less. They see the value of these school programs to improve the way we teach today. Education technology prepares students for the future or directly 'next generation'. The Indian government is aware of the development and has therefore come up with a National Education Mission for information and communication technology. It aims to eradicate digital literacy by distributing Aakash tablets to students across India at very low prices.

Ways to use information technology in education

We can find the following ways to use Information Technology in education:

a. Volunteer to develop information technology in the field of Education through blogs, forums, etc.

b. Familiarity with e-learning strategies.

 To volunteer to promote information technology in education

 Now by looking at this slide we can see how a volunteer can help himself and the community in promoting information technology education. Right now, we see an old volunteer's face, that is, a customer robbing obsolete textbooks. And the new face looks very promising when the volunteer plays the role of co-creator of the Link Link Creator

Changing Teacher, Student and Administrative Perspective (with technology in education)

When students have access to the latest, most up-to-date information, and when that information is shared with their peers and teachers, the learning experience changes dramatically. Teachers, former curriculum specialists and content distributors, will convey an additional portion of the learning process and work to students. Students then have a responsibility to understand where to find information and how to work together in a web-based environment. Students should ask themselves: How do I learn?

How can I use knowledge and technology to gain knowledge? Such an experience prepares a person to become a long-term student, which is essential for success in future careers. So the whole learning paradigm changes. In addition, technology allows students to express themselves in a different way than before. Students are no

longer limited to using a piece of paper and a pencil or pen, but instead have a unique online site where they can disclose what information they have been able to collect, integrate that data internally, and integrate it into their assignments.

Information Technology Tools

A volunteer can find the following tools useful in promoting information technology in the field of education: Blogs, Forums, Communities, Webcast, PodCast, User Groups, Picasa (Google) and Flickr (Yahoo), W3Schools.com, Webopidia, Wikis, Web conferencing, Videoconferencing, Chat, E-mail, Instant Messaging, Bulletin Board, VOIP, Data Conferencing, Shout Box, Image Board, YouTube, Slide Share.

Role of Technology in Present Education

The availability of technology enhances the quality of education and makes it much easier. Today, direct access to the Internet has made education easier. Upgrade; today, students no longer have to wait for a teacher to complete a subject. They can quickly learn or learn anything they need online or with the help of various educational applications.

Today, technologies like computers and laptops or cell phones are readily available and easy to use, which helps you to educate yourself.

The use of technology in education is beneficial for those who do not have a lot of daily time, especially those who work. Suppose a person wants to work and learn a new skill in order to improve or enhance his or her career so that he or she can easily choose an online course.

During the COVID-19 violence, schools were closed for more than five months, and the only way to learn online is online.

Technology rescues students from teaching for a year, thanks to technology that made education possible during the COVID disaster. There are many smart classes found everywhere, which increase students' interest and encourage them to learn and learn.

Role of Technology in Future Education

In the future, even textbooks will be available online, which will reduce the amount of school baggage you need.

The promotion of Digital education will help save the environment, and will also help reduce pollution caused by the burning of unwanted materials.

Education shall be free, at least in the elementary and fundamental stages.

It will help students to read, read, understand, think, analyze, and act logically. This will help increase education levels.

The grade will never be a barrier for students who wish to gain information with technical assistance.

Technology helps us to make advanced research programs and to learn new things.

Contribution of Technology in Education in English

In modern times, technology has become a major factor in everyone's life.

Every day new gadgets or software comes along that make life easier and improve existing technologies and software.

The value of the technology sector is growing steadily and rapidly. As technology advances, there are additional benefits to students and individuals at all levels of life.

Technology has also become an integral part of many disciplines beyond computers and technology classes.

Students, who use computers, use the internet to present reading tests on various websites and forums.

One of the main reasons for starting to use technology in the classroom is because it makes learning fun and straightforward, leading to better student awareness.

Classes are also developing using the latest technology such as smart boards, interactive learning times, smart gadgets like touch board, tablets, audio and visual enhancements, etc.

In the case of the COVID-19 epidemic, technology has come as a ransom for us; today, technology enables us to learn without going to school and to stay safe at home.

Technology is now part of our education system; the only way left is to learn about safety without leaving a comfortable environment and living within our homes.

Technology provides many resources, one of which acquires knowledge, with the use of technology these days we can learn even the most important thing and do almost anything.

The Importance of Technology

Technology provides a digital platform and today it is an important part of our lives. Wherever we go we see the use of technology. Schools are running a new brand of smart classes and these classes are an excellent example of technology.

The use of technology has made education easier and more interesting. Usually, children do not like to go to school but after introducing these smart classes they just love to be there. In addition to these smart classes, there are also many software available for educational purposes.

That software keeps us informed and helps us learn new things. While there are both positive and negative aspects of using technology still, we hope for the best. There are a variety of topics available on YouTube and there are many educational apps available. We can learn from them, and every day we can learn new things.

I really like learning from the app, it is designed in a way that I love. It appeals to me and encourages me to learn and make education easier.

Conclusion

Education should not be limited to textbooks; Times have changed and the learning process needs to change and students need to be given the opportunity to learn something new and exciting and technology makes it possible. Technology is useful in many ways especially when it comes to education. It helps students develop interest and learn new things. Today a newborn baby gets used to the cell phone and when the kids get their education on these platforms, they will just love it.

With the advent of technology, one can expect an increase in ability and efficiency for both, teachers and students. Technology is leading to rapid educational change, while addressing issues affecting learning, teaching and community service. Therefore, technology can be seen as a tool associated with the catalyst for change. Students should embrace technology for their own benefit and teachers should be open to bringing it into the classroom to establish their own teaching methods.

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