

Reimagining the Role of Technology in Education in India in 2018

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Abstract: Education which now has become fundamental right was not easily available in India; and that is not just centric to India. Even greater part of the world faces the same problem where education is still a distant dream for some people. Technology has emerged as a tool to combat this problem. Along with the digital revolution, emerging technology in education has addressed the non-availability problem to a greater extent. Generally, India had not adopted technology in education before but with the increase in the broadband connectivity, low cost availability of computers and mobiles, there has been an upgrade in the Indian education system. Literacy is the base of the economy growth and India is known as one of the top education system. This paper studies the ways the technology has helped the education and the actual impact it has made and how technology has become important in the education system in India.

Keywords: ICT, Technology, Education

Introduction

Technology is the capable key device for changing learning. It can enable a vow and propel connections amongst instructors and learners, to rethink our ways to deal with learning and coordinated effort, contract long-standing value and availability holes, and adjust learning encounters to address the issues of all students. Our schools and colleges ought to be hatcheries of investigation and innovation. Instructors and educators ought to be colleagues in getting the hang of, looking for new learning and persistently obtaining new abilities for their learners. Instruction pioneers and MHRD should set a dream for making learning encounters that give the correct devices and backings for all students to flourish. In any case, to acknowledge completely the advantages of innovation in our instruction framework and give legitimate learning encounters, teachers need to utilize innovation successfully and productively in their training. Besides, training partners should focus on cooperating to utilize innovation to enhance Indian instruction framework. These partners incorporate pioneers; instructors, staff, and different teachers, analysts, policymakers, funders, innovation designers, group individuals and associations, and students and their families.

Addressing Education through Technology

ICT can also be used to transform education and transform India. While the literacy rate in the country may have gone up to 74.4% in 2017, it is uneven. Another big challenge has been to keep students at school and improve their learning outcomes. As per the last survey by the National Sample Survey Organization (NSSO), an average of 326 out of 1,000 students in rural areas are dropping out, while the same number stands at 383 per 1,000 in urban areas. These are very poor data. The educators and policy makers have to think over this situation. India needs to decrease the dropping out ratio. What's more, numerous studies which are selected in formal training are not

getting the right stuff and abilities they have to prevail in learning based economies since they can't utilize the most recent innovation to update the information. Education is the pillar for young people to improve and enhance their employability skills. In 2016-17, Reliance Jio offered free internet connection with good connectivity. Many young people turned digital. Second thing, Namo e-tab was distributed to students with nominal charges; that also encouraged students to use technology for their education.

There are two-fold benefits that technology can enable in India as far as learning and education are concerned; one is to make education more accessible and second is to make learning more impactful. Concepts like remote learning and digital classrooms have been instrumental in taking education to the remotest corners of the country; these concepts continue to evolve. Moreover, falling smartphone prices and easy access to internet have brought about a sea change in the way students interact with subjects. Students can easily access their doubt through smartphone. Fall in the prices of smartphone and internet with minimum cost encourages students for more knowledge.

Evidence indicates that basic computer training programmes, retail management skills and proficiency in spoken and written English can substantially improve the chances of young people finding a job. Government has introduced many vocational courses for getting the training with nominal fees and also given free coaching centres for English and Computer like SCOPE. Girls and boys get a foothold in their journey of lifelong learning by being enrolled in simple programmes which expose them to technology. We're using Connect to Learn (CTL) for imparting basic training in computers, soft skills and personality development, retail and management skills, along with proficiency in spoken and written English to young people. These projects aim to increase employment opportunities for this core group through ICT training, job-oriented skills and placement assistance. The project has trained 14669 students and about 52% of those trained have been placed in jobs.

Girls, in particular, face more problems in education and this leaves them susceptible. With quality education, girls have a much greater chance to earn a decent living, improve a healthy family, and develop their quality of life. In fact, a World Bank study found that for every year of secondary school education that a girl completes, her future earning power increases by 18%. In India, we work with numerous organizations with the goal of increasing self-development opportunities for 15,000 girls aged 15–25, providing tutorial support on subjects like math, science, and English. They try to reach girls and young women within their own communities to avoid the challenges of limited mobility, and also work to raise awareness among girls on issues related to their safety and security.

Objective of Study

- To know how the key educational technology trends in 2017 will impact in 2018 year too.
- To know the other side effects of technology in education tomorrow.

Research Methodology

This paper is based on descriptive research design as it shows how technology will impact on education in 2018. The secondary data collection method is used. For this purpose, various magazines and journals have been used as it is a conceptual paper.

Key Educational Technology Trends in 2017 Will Impact in 2018 Year Too

The Indian instruction framework is made at a fascinating stage—on one hand, there is a developing spotlight on accomplishing learning comes about, while on the other, innovation is being received rapidly and substance is being redrafted and upgraded to adjust to an assortment of rising media. Among all advanced improvements, ‘innovation’ has unmistakably developed as the single greatest subject to affect the area over the most recent couple of years. These forecast well for the present-day student, as well as for educators and others in the instructing learning process. Numerous inflexible educators still have confidence in the conventional framework yet. The introduction of carefully empowered classrooms, cloud-based substance, e-books and online appraisals, among others, has empowered our instruction framework to achieve an expression point and now we can contend to worldwide market. The training innovation, or edtech, patterns can possibly upturn the instruction scene until the end of time.

Virtual and Augmented Reality (VR and AR)

When we talk about the key takeaways of 2017 technology, it’s hard to ignore the two key trends i.e. Virtual Reality and Augmented Reality. With the initiative of Google with cardboard and also companies like Samsung, they have come up with their own equipments to experience the virtual world as good as reality. Even though they are more perceived as an entertainment tool, its educational style has been hardly scratched of. Imagine a situation in which instead of looking and teaching Saturn students can have a look at it by wearing a virtual reality headset. Artificial Intelligence is so powerful that it helps not just look but also interact with an object. Traditionally, the educator used to use the print media or digital media. With this level of advanced technology, the focus of educator is now not to explain object but rather its implications and explain the feature. On the other hand, the learner can even experience it virtually. (V, 2018)

Adaptive Learning through Artificial Intelligence

The biggest challenge that the educator ever faces at any level of education is how to engage learners in classroom education. Engaging learner is quite a bit of task but not so much difficult with adaptive learning. It, not just arises interest in the mind of learners but it provides uniform learning and it also keeps pace with learners having different abilities. Emerging technologies like chatbot can be programmed to handle task like tutoring and simple query based learning. This will also pave the way of other limitation of learning. With technologies like speech to text and speech recognition, it has become possible to provide same sense of learning to differently able people. (V, 2018)

Learning Analytics

A wise man said, 'What completes estimated is what gets.'. The big discussion over here is to move from very big data to some or little information. This can also be an individual data and thereby giving attention to individual student as well. The educator can make an effort to understand individual student capacities and individual queries. This also provides a good opportunity to bridge the gap between teaching and learning with traditional instrument used to have. True learning can only be possible if the educator shapes the future of the students' career. So, with the amount of information that the educator is having, it will provide not just the basic learning of students but will also help students to make a sound choice for his career. (India Today, 2017)

Online Assessments

The crucial stage for any education is its assessment. Many of the universities has opted for online assessment, a lot is yet to be done. The key benefit of online assessment is its remote access where geographical boundary is not an limitation. It also provides quick delivery of results and customization according to requirement. When a lot of universities have implemented choice-based credit system, evaluation and data compilation takes a lot of time when it comes to multiple subjects and multiple electives. This is the point where the traditional system gives in because of complexities of data involved. Online assessment not just provides data timely but also in efficient manner. It can also make historical data comparison and trend analysis which serves a better guide to educator. Online assessment has also opened gate for online testing. Candidates can appear for the test whenever they want to, they need to make proper infrastructural arrangement and need to choose available time slots. Various testing centres have also been developed where customized test option is not feasible. This will drastically fill the gap between examination and assessment.

One thing that needs to be noted over here is that even after such automation, the importance of educator is intake. Given the data analytics, educator can interact with the students who need performance improvement. The infrastructural requirement will be a key for next few years as the demand arises and education will phase its greatest transformation. (India Today, 2017)

Tech after Tomorrow

New advancements like AI, machine learning, and instructive programming aren't simply changing the field for learners; they're shaking up the part of instructors, making philosophical moves in ways to deal with educating, and renovating the classroom.

With an inundation of new learning models accessible, conventional instructive techniques will undoubtedly develop in the following decade. To show signs of improvement and get a feeling of where things are heading, business insider has investigated innovations creating part in the field of instruction and illustrated the advances that could be explained for what is to come.

Technology is Providing a Way for Learning Models to become Increasingly Personalized

Each study adapts in an unexpected way, and innovation enables instructors to suit novel learning styles on a case-by-case premise. Advances like Dream Box, a math training programming that is utilized as a part of various classrooms over the US, adjusts to every learner's expertise level and gives the learners a chance to learn from an optimistic standpoint suited to their necessities.

Versatile learning programming is rapidly supplementing the part of reading material in the classrooms and learners are handling subjects with the guide of tailor-made PC programs that help their necessities.

Expect Technology to Present Some Philosophical Shifts in Education, as Well

With innovation making it less demanding, within any time in recent memory to inquiry, Google can easily figure a math issue; instructors are deciding the sorts of learning that the learners require keeping in mind the end goal to flourish in an innovation soaked workforce.

While instructive models of the past concentrated on giving learners the imperative abilities to transform them into gifted specialists, the instructors of today are more worried about showing learners how to learn without anyone else.

Teachers Will be as Important as Ever

With more information accessible to track every classroom's advance, teachers are given expanding understanding into how their learners are battling.

Math training programming Dream Box gives teachers accounts and information into how learners are learning and advancing so instructors can centre on the regions where their classrooms require the most help.

Artificial Intelligence is Poised to Play an Integral Role as Well

For example, The U.S. Naval Force has presented an AI-based mentoring framework called Education Dominance into a section level IT school in Pensacola. The stage works also to a human coach, observing every learner's advance and giving customized evaluations and tests.

The Navy detailed that the learners who had worked with the computerized coach made colossal walks in their training, and that they reliably tried higher than learners who had examined without the program's advantage.

The stage gives a look into how instructive models may function in the following 15 years: PCs going about as individual mentors in classrooms loaded with assorted learning styles.

Students Can Assume More Responsibility in the Classroom

With instructors better prepared at understanding, a learner's learning procedure, classrooms are being conformed to little gatherings, with learners who coordinate each other's ability level cooperating. This move in tailor-made learning bunches gives.

Learners with autonomy in the classroom, “There’s an expanding push for learners to take more possession and have greater association into how they learn,” “Making office in the classroom enhances learner’s inspirations.”

Conclusion

“Despite the inundation of technology within the classroom, its role still remains to be determined.”

“Technology is not silver bullet solution.” (BERNARDDEC, 2017)

“We must be straightforward that we don’t have complete confirmation one way or the other yet that technology is enhancing instruction. We are warily hopeful that technology is having an exceptionally striking effect.”

Technology’s advantage in the classroom is all in the way it’s utilized. At the point when matched with relational connections, astute teachers, and consider programs, technology in education can be an extraordinary resource; however, the studies cautions that it isn’t the end-all answer for instruction. It’s not tied in with having a child gaze at a screen for six hours every day. “The genuine story for the fate of instruction will fixate on how teachers structure and run their classrooms.”

In this paper, we have seen both the types of examples about how the technology positively impacts on education or not. The impact of technology is good but sometimes it gives some adverse result to society. It is the duty of educators, parents–guardians to teach the real value and use of technology and another thing that through the technology educators cannot be fully replaced. The roles of educators are still as important as earlier. The good thing is that educators can enhance their teaching methodology through technology.

As technology keeps on changing society, those in charge of our present frameworks of training are confronting overpowering strain to adjust. By grasping the energy of ICT, we can upgrade our training and to have any kind of effect in our India.

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