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BREAKING LANGUAGE BARRIERS

HOW TECH IS MAKING LEARNING GLOBAL

Devika J, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 4–17.

Introduction

Language has always played a significant role in different stages of education from language as an embedded barrier limiting access to knowledge to collaboration across cultures. For decades, learning a new language was a slow and challenging process that could take many years of study and immersion. Yet technology is now helping us break free from such barriers, making education much more inclusive and accessible to people worldwide. Artificial intelligence, speech recognition, and real-time translation tools make it possible for students to learn in their native language, study from global courses, and communicate with fellow students and education specialists without any language constraints. In this regard, thanks to the availability of AI-powered subtitles, multilingual e-learning platforms, and lifelike virtual classrooms, the world of education today is no longer rudimentary in its beliefs of dividing learning through a language barrier. It is becoming a truly global and interactive space for knowledge to wherein everyone has access.

As technology continues to evolve, the dream of a world where language is no longer a barrier to learning is closer than ever.

AI-Powered Translation

AI has undoubtedly changed the way we communicate and learn from one language to another. Very sophisticated tools, like Google Translate, DeepL, or Microsoft Translator, can now able to translate written texts, spoken words, and even the contents of images. Besides helping those wanting to learn a language, these tools made content available to students from every corner of the globe. Real-time translation features, with their introduction into the education domain of the planet, have become game-changers. Enabled by Aldriven subtitling or transcription services such as the ones already provided by YouTube, Zoom, or Microsoft Teams, students may now watch lectures or international webinars or participate in discussions without any hindrance regarding their language. Integrating real-time captions enables learners to engage in the same activity while following according to their preferred language. Language learners gain practice in having a conversation in natural ways, thanks to AI chatbots and virtual assistants. Applications like ChatGPT, Duolingo, or any language-specific AI tutor have provided instant feedback and tailored learning experiences that students use to adapt their language more rapidly than with normal learning.

Moreover, Al-powered translation is crucial in making academic research and literature accessible. Scholars in possession of this art may, thus, translate scientific papers, historical texts, and educational materials into any number of languages that most excellent needed, thus ensuring the obtaining of vital knowledge by wide audiences. This is, particularly, important for students coming from non-English-speaking areas, who now at least can look upon high-quality resource materials that previously were abandoned in certain languages.

Al-powered translation is removing barriers to language, thus allowing for cross-cultural collaboration, increasing access to knowledge, and bringing people closer together. While the development of AI continues, the future of language learning and the global market in education seems to be becoming one inclusive entity.

For instance,

- Healthcare & Emergency Services AI translators, such as Google Lens, help doctors communicate with patients who speak different languages, improving healthcare access.
- Travel & Tourism AI translation devices like Pocketalk and Google Lens help tourists read signs and menus and converse in foreign countries.
- Customer Support Chatbots Companies such as Meta and Amazon, use AI-powered translation, assisting customers around the world by automatically responding in their preferred languag.

E-Learning Platforms

Electronic learning has completely changed how people pursue their studies, enabling students to take up their courses from the finest to the lamest from any part of the world. There are platforms like Coursera Udemy edX and Khan Academy that offer numerous subjects and most of the time provide language support to clear barriers in learning even through many languages. Most of these are being endowed with subtitles, translated course materials, and, in some cases, Al-driven tutors that further personalize the lessons for different linguistic needs and preferences. These e-learning platforms have other advantages, one of them being personalization. Al-based recommendations suggest courses based on a student's progress to help them improve at their

own pace. Besides, a gamified learning experience, such as language learning applications Duolingo and Babbel, provides a motivating and fun choice for language acquisition. More inclusive live online classes sustain real-time translation and captioning thanks to Zoom and Google Meet, allowing students to attend international courses, participate in discussions, and group projects with their peers all while tackling language barriers. Because so many universities and institutions now offer online degrees and certifications in multiple languages, opportunities for further education are broadened for non-English-speaking learners. Open-source learning platforms like MIT OpenCourseWare and TED-Ed promote that knowledge clutter does not remain limited to students globally due to their linguistic backgrounds. As e-learning continues to progress, integrating AI-grounded tutoring, real-time voice translation, and virtual classrooms will render it even more accessible. With the language barriers slowly becoming a thing of the past, online education is fast becoming a worldwide open door to the pursuit of knowledge, and empowerment for learners from every corner of the world.



Ethical Concerns

Ethical Concerns Related to AI As artificial intelligence transforms industries, ethical concerns regarding AI development and deployment are becoming more salient. Some of the key ethical concerns a priori are:

 Bias and Discrimination – AI models are often trained on biased datasets, resulting in bias or disadvantageous decisions in hiring, lending, and law enforcement contexts.

 Privacy and Data Security – AI systems exist that gather and analyse large amounts of personal data, which raises questions related to consent, surveillance, and potential misuse.

 Job Displacement – Automation caused by AI is resulting in human workers being replaced across industries, leading to potential unemployment and economic instability.

• Misinformation and Deepfakes – AI-generated fake news and altered videos or synthetic media have the potential of creating misinformation which can influence public opinion and erode trust.

• Accountability and Liability – When AI systems make mistakes such as with autonomous vehicles or medical diagnoses, it becomes difficult to determine accountability or liability.

 Al in Warfare or Automated Weapons – The use of Al for drones or autonomous weapons generates ethical warfare considerations and the loss of human override in combat.

• Environmental Impact – The computation needed for training large AI models requires a lot of energy and fuel which raises environmental considerations.

Speech-to-Text and Real-Time Subtitles

Today, more than ever, accessibility and communication are pertinent. Technologies like Speech-to-Text or Real-Time Subtitles assist hearingimpaired persons, non-native language speakers, or those who are hard of hearing in audio-heterogeneous situations and enhance communication by breaking the mold and making it more inclusive for everyone else. Speech-to-Text works to translate the spoken language into the written text, rather like the word says. With natural language processing algorithms and machine learning models, it converts what is said into text in an automated fashion in real time. STT has revolutionized many trades and industries, particularly in the health sector, where doctors would be able to dictate notes straight into the system, and in the education field where lectures can be transcribed for students who need an additional bit of help. The boom of virtual assistants like Siri, Google Assistant, and Alexa just saw STT become a mainstream technology, and that has helped execute tasks hands-free with voice commands.



Speech-to-Text technology is what helps prepare Real-Time Subtitles for immediate display in live conversations, videos, or broadcasts. This technology

is significant in media content such as news programs, online lectures, live events, or streaming platforms like YouTube. For the hearing impaired, real-time subtitles will allow them to keep pace with content that otherwise would be difficult to follow. They are also helping people in noisy environments who may have trouble hearing the audio but can still read the text and follow along. Likewise, together, Speech-to-Text and Real-Time Subtitles help amplify their accessibility and inclusiveness. They aid deaf or hard-of-hearing people in participating in conversations, watching media, and efficiently accessing information without feeling left out. They further facilitate communication across different languages by providing real-time translations to ease the understanding process among the speakers of various languages.

As this technology continues to grow, their accuracy and integration into daily life will improve. Such technologies bring the accessibility of Speech-to-Text and Real-Time Subtitles, acting as a means of global connectivity, understanding, and inclusiveness in a digital world.

Technology Should Enhance Rather Than Displace Traditional Techniques

Technology has caused disruptions in many fields, and it does not replace or should not replace traditionally accepted processes but rather improve those processes. The key should be a blend of technology that is artificial intelligence (AI) enabled, automated, or digital, which brings benefits such as efficiency, accessibility, and personalization. However, human contributions and traditional methods provide value that technology cannot replicate.

• **Education** – Al-designed platforms, or personalized learning apps, can support a student's effort to grasp a concept at their own pace, but a human teacher mentor provides emotional support, critical thinking skills, and mentoring that cannot be bought or replicated by technology alone.

• **Healthcare** – AI can support diagnoses, manage medical records, and assist with patient monitoring, but patients still need human doctors for ethical decision-making with complex patient problems and where legal and ethical accountability is required.

 Customer Service – Chatbot applications and Al-powered assistants can assist a customer in managing routine and easy questions, but human representatives are needed when a customer requires personalized help, conflict resolution, or when a deep understanding of a customer's needs is needed to manage their deep needs.

 Journalism and Writing – AI-technology can assist in producing initial reports and producing fact-summary reports, but human journalists provide the depth and tireless investigation or in-depth construction of stories from an ethical perspective or in reporting.

• **Business and Decision-Making** – Data-driven AI models can provide data analysis and prediction models of trend reports and future outcomes, but humans must still make sophisticated and balanced decisions that will be socially and ethically responsible.

By integrating technology with traditional methods, industries can achieve greater efficiency without losing the human touch that is essential for creativity, ethics, and meaningful interactions.

Challenges and Limitations of Tech in Language Learning

With technological advancements integrated into language learning, the whole process becomes more dynamic and accessible. Such access allows the learners to study from anywhere, and at their own pace. Regardless of this benefit, other challenges and limitations are posed by technology that can obstruct the process of language acquisition.

Lack of Personal Interaction

Technology in language learning lacks person-to-person interaction, which is crucial for building confidence and fluency. Real-life conversations with native speakers or teachers provide valuable feedback, expose learners to slang, idioms, and cultural contexts, and train them to think quickly and adapt to unpredictable conversations. Personal interaction also provides emotional support and motivation, making it essential for students to practice with real humans for full fluency.

Dependency and Lack of Autonomy

Technology in language learning may hold a few good chances, along with the certain effect of dependencies. It will put less pressure on learners to think independently and practice language in real-life settings. These weaknesses will be unique in language development since they will be faced with the inability to learn languages outside a structured and sterile digital environment. To cultivate full language acquisition and foster autonomy, technology must be coupled with hands-on practice, critical thinking, and real-life engagement.

Lack of Emotional and Cultural Context

Application and digital media can help with grammar, vocabulary, and sentence structure throughout the learning process. However, the more intuitive aspects of being fluent, such as emotional and cultural contexts, are absent. Without getting into traditions, values, and humor within a cultural framework, a person could hardly speak the language properly. The development of computer-assisted language learning should be accompanied by cultural immersion into the language; otherwise, technology can hardly represent the emotional and cultural parts of the language concerned.

Limited Feedback and Error Correction

Language learning technology comes with many obstacles, such as generic feedback and error correction. Even though digital tools have the ability to identify simple errors, they do stand in lack of context and personalized instruction. This can slow their progress and cause repeated mistakes. Apart from this, technology is quite unable to address complex matters of pronunciation and intonation, demanding human communication and understanding.

Distractions and reduced focus

Language learning through technology can result in distraction and less concentration as technology is used through platforms of entertainment and social media. This, in turn, will affect attention and concentration, weakening the retention power of information and further disadvantaging the process of language acquisition. Learners are thus advised to ensure the elimination of distraction or limit input from other applications or devices while improving focus since this maximizes benefits from technology used for language learning.

The Future of Learning: A World Without Language Barriers

Al-Based Language Translation Tools, where we have real-time subtitles, voice translators, and language-learning apps are breaking down the boundaries between languages. With these technologies, people could communicate seamlessly irrespective of their language, encouraging bindings between people from different cultures and backgrounds. In education, this translates into students all over the globe having access to study materials, and subjects, attending classes, or working on group projects, having no consideration for the tongue spoken at home. Opening the door further for people to access knowledge, removed from restrictions of both distance and language. Some

really exciting opportunities lie ahead that would allow students, for instance, in remote areas, to access university-level courses in subjects of their choice, in full translation, and localized contextualization. This would be part of a more inclusive and diversified learning environment from every corner of the world, thus creating equal opportunities for everyone regardless of cultural or linguistic background.

But even as technology evolves at such a brisk pace, is it free from all trouble? No, language, by its definition, consists of more than the translation of some words into another tongue; it exists in context culturally, idiomatically, and with emotional undertones. Current systems for translation do not afford a great opportunity to capture each of these subtleties, which are very essential to understanding and communicating properly. With so many variations, idioms, jokes, and culture-specific references can easily be lost in translation, hence creating misunderstanding or avoiding the nuance in communication. For technology to truly overcome the language barrier, it will need to evolve in such a way as to respect and understand the cultural and emotional makeup of language. Besides, putting too much faith in machine translation will inevitably lead to something getting lost in translation: the richness of a culture-given expression through the practice of learning and understanding a language. The study of a language means much more than which words mean what and how their grammar works; being truly and practically effective means immersing oneself into the culture from which a language sprang and to which it includes history and values they impart, human interactions, including and the ways of thought. Thus, as long as AI and real-time translation technologies keep evolving, the language gap justification will always narrow, but human connection and cultural appreciation will always be of immense importance. This would, however, make language more accessible as an avenue towards bridging their divides in worldwide collaboration and transmission of thought.

Global education will one day be such that regardless of the language of instruction, students, will be made to understand one another, collaborate, and grow, creating interconnected, global learning. An interconnected world without language barriers will make education more inclusive and nourished with empathy, understanding, and cooperation over different cultures.

Future Implications: A World of Infinite Learning

As technology continues to evolve, its impact on a global scale on education is only somewhat outside of our comprehension. The future will undoubtedly bring more advanced technological tools that will further change education as we know it, increasingly making education inclusive, personalized, and connected.

 Broader Access to Education – With AI-enhanced platforms and real-time translation applications, education may become truly global. Those in the most abundant and underserved communities can access education of similar quality as those living in more developed communities, creating equity among all people for educational experiences.

• **Personalized Learning Pathways** – As AI continues to perfect its understanding of individual learners' preferred learning styles, education will continue to evolve toward more personalized models of learning. Each individual will experience a unique learning path created specifically for them as they continue to reach their learning potential.

• **Cultural Exchange & Collaboration** – When students and educators can communicate and learn across languages, there is a possibility for global collaboration. Students and educators from all around the world, and different hemispheres can learn and work collaboratively on global projects, that benefit learning, cultural exchange, and understanding.

• Language Learning Without Limits: As AI and machine learning evolve, language barriers will virtually disappear, allowing learners to interact with content, people, and resources in real-time, in any language. This will provide an environment in which anyone, from anywhere, will know at their fingertips.

• Lifelong Learning: As technology also constantly is changing at a fast pace, education will no longer bound by the traditional years of schooling. Lifelong learning will become the standard, with adults having access to continued skillbuilding with durable AI products that allow them to be competitive in the workforce. The future will encompass a world where education readily incorporates technology with humanity, introducing innovative power to empower, strengthen culture, and help with global growth.

To that extent, the barriers of language will continue to fall, which we will experience in our goal of a world where learning can be considered a human possibility and not just an adult right.

Conclusion

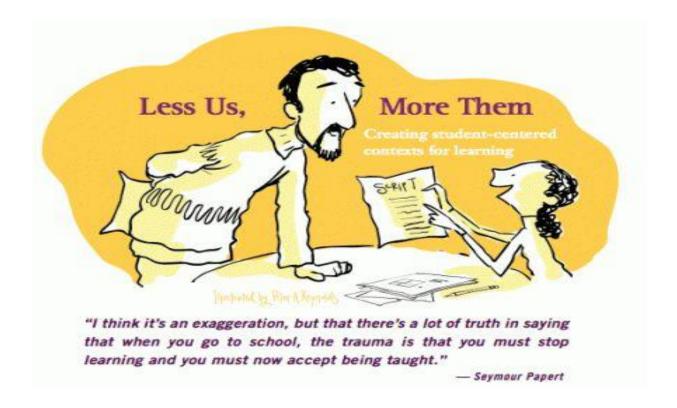
To wrap up, bringing to life a global classroom Technology has broken the boundaries of language, allowing for a truly global learning context that doesn't limit knowledge. With technology using AI to translate, add subtitles in real-time, or create individualized learning experiences, the world has become a larger class, a space where knowledge flows throughout; all learners can reach their needed resources. Well, technology has made a connection to the world; the human connection—relational capacity for empathy, mentorship, and critical thinking that only humans can provide—gives depth to this educational revolution. Technology should enhance traditional educational paradigms rather than replace them, making sure that learning remains personal and has transformative implications above all.

Developers are now making it possible to overcome language barriers, which is ultimately making it easier for everyone to learn, and to create a more inclusive, interconnected world to innovate. The world of learning is global, and technology is the key to success; one conversation, one connection, and one idea at a time.

TECH Vs TEACHERS

CAN DIGITAL TOOLS SUBSTITUTE HUMAN EDUCATORS?

Soumya Vartika, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 18–25.



In a world where technology is progressing at lightning speed, the argument of whether digital tools can substitute human educators is a burning one. With Aldriven tutors, virtual classrooms, and e-learning platforms on the rise, the question arises: Will traditional modes of teaching go the way of the dinosaur? But can the non-substitutable be replaced by technology? Let's investigate the intriguing field of education to find out more!

With the increasing availability of digital tools, a contentious conversation is emerging: Do we even need teachers? AI-led tutors, virtual classrooms, and elearning platforms are sprouting around the world many people believe that conventional methodologies for teaching will soon become obsolete.

However, Technology is not a replacement for the teacher. While technology can enhance education to a much higher level, it cannot replace a teacher's touch. The training data it carries is up to October 2023. It removes geographical limitations and provides students the opportunity to learn from field experts across the globe. Education, however, is more than relaying facts; it includes being a mentor and possessing emotional intelligence and flexibility. Teachers also inspire their students, encourage creativity, and hone our critical thinking skills, all things AI cannot replicate.

Also, the surrounding environment is essential when it comes to learning something new. A skilled instructor really enhances the experience of students in the classroom with difficulties and learning the best practices on how to apply one's social skills in real-life situations. Al can teach students, but it does not sit with them in difficult times.

It is more likely that education will take a mixed approach model concerning the classic and the use of technology. Al is capable of performing monotonous work, allowing teachers to prioritize students' needs more in terms of technical and emotional care. Instead of viewing machines as a replacement for teachers, we should look at them as another means of enhancing the learning experience.

The Rise of EdTech: A Revolution in Education

Nowadays, chalkboards are a thing of the past. Learning has drastically changed since the invention of smartboards. Today, AI, virtual reality, and personalized learning platforms are transforming the way that students learn.

EdTech – as in the common phrase, it's the technology in education, progressing so fast and shifting the strategies of education at the different levels altogether, very recently. In this light, virtual learning environments, e-learning platforms, and Al-based tutoring software, fundamentally altering the way knowledge gets shared and absorbed, commonly rely upon emerging technology. One of the many changes that were brought by the digital revolution is the way people learn; it is making education more accessible, interactive, and personalized, thus dissolving the rigid walls of traditional learning.



The Evolution of EdTech

Technology as an adjunct in education is no new thing; the last decade, however, has witnessed an unusual spurt in digital tools for improving learning and teaching processes. Artificial Intelligence, cloud computing, and big data analytics are set to transform personal education. Customizable courses tailorfit to one's learning speed and need; adaptive learning systems give instant feedback that allows immediate interventions by the student.

EdTech awakens the democratization of education. Of its compelling advantages, education is available everywhere. Online class education granted geographical distance so that students from far-off places can partake in quality education. In addition, EdTech solutions also accommodate different kinds of learning needs, which include assistive technology in the case of disabled students and multilingual learning content.

Like today, artificial intelligence acts as a prime mover in education by analyzing the learning styles of students and modifying the content to suit them. Al tutors and chatbots serve as student assistance for any questions; machine learning algorithms recommend study materials according to personalized levels of growth. Personalized Learning and AI Today, artificial intelligence is indeed the most powerful in changing education by studying the learning styles of students and then adjusting the information to suit them. It encourages their activity by actively using AI to teach, among other things. The AI tutors and chatbots assist students who ask questions; meanwhile, the machine learning algorithms contribute recommended study materials according to personalized levels of progression. Such personalization in education ensures that focused instruction is given, maximizing retention and general performance.

Filling the gap that was earlier occupied by all old-fashioned learning techniques is gamification and interactive content. EdTech Platforms try to bring learners on board through features like quizzes, leaderboards, simulations, etc. VR/AR technologies amplify this by offering highly immersive lessons like virtual science lab experiments or travel through time in history. The interaction makes it effective and fun.

Teacher's Role in EdTech

It is an innovative tool but not a substitute instead of the instructor. Al can deliver lessons and grade assignments, but human teachers nurture compassion, reasoning ability, and mentorship—all traits' machines do not possess. Emotional and intellectual conflicts are guided by creative and curious learners. Most probably, it could be that technology is supplemented into the teacher for education's future with possibly one other view: that it replaces the teacher.

Challenges and Issues

Face it, and the face of challenges that develop EdTech is the last issue of the digital division: devices and stable broadband access denied to impoverished students: no doubt that it is undeniable. Then come the data privacy issues, problems of excessive screen time, and fairness of AI tests. In that case, however, policymakers and educators ought to be clear that this is not technology against learning, but the ethics under which the technology operates.

The rise of EdTech promises to transform education into experiential, accessible, and customized environments; however, technology would always be best understood as support for teachers but never as a complete substitute. The best form of education is where technology complements human faculties for maximum benefit of students, who will also learn essential life skills. With the continuous growth of EdTech, the future of education has come to be perceived as ever more dynamic, inclusive, and engaging.

The following are some revolutionary technology tools redefining education:

AI Tutors and Chatbots

Al-powered software such as ChatGPT, Khan Academy's Al tutor, and Duolingo's language assistants make learning more personalized by tracking students' progress and giving them real-time feedback. Students can learn at their own pace thanks to the software's round-the-clock assistance.

Augmented and Virtual Reality (VR & AR)

Consider taking a close look at a frog in the AR without the goop or studying ancient Egypt by stepping into a virtual pyramid! Unlike the standard textbook, VR and AR turn learning into an engaging, interactive process that boosts student motivation.

E-learning Platforms

E-learning platforms, including Kahoot!, Quizlet, and Coursera, also employ gamification techniques to motivate students. These websites take advantage of interactive tasks and quizzes to highlight key points and improve the learning process.

Data-driven learning

Data-driven personalized learning uses analytics based on artificial intelligence to monitor the performance of students, pinpointing both their strengths and weaknesses. Based on this information, digital platforms personalize lessons to suit individual learning styles, making education more efficient and effective.

The Human Touch: The Continued Need for Teachers

Despite its many benefits, technology lacks one crucial component: human interaction. Teachers serve as mentors, role models, and inspirations in addition to imparting knowledge. For the following reasons, human teachers are still necessary:

Emotional Intelligence and Empathy

While a machine can grade an essay, can it console a failing student? With an understanding of emotional cues, positive feedback is given to stimulate a learning environment where growth can flourish. Teachers quite naturally manage the fast-changing realities of life in the classroom and bring about much-needed answers to suddenly arising problems while thinking critically about those situations themselves.

Adaptability and Critical Thinking

Teaching is, indeed, a sacred calling, above and beyond the bonds of friendship between teachers and students, who are essentially the most significant object in the learning process.

Moral Guidance and Ethics

Education makes a man good; thus, it is AI that can simulate the educational process. In other words, with algorithms, you would miss the efficacy in terms of guiding a student through moral principles, values, and social skills that only a teacher can impart.

- Collaborative Learning and Social Learning are debated, opposed, and team-played in general within the classroom.
- Even these can be sharpened by peer-to-peer discussions among students in teacher-facilitated conversations.
- Technology should be used as a supplement to conventional learning instead of substitution.
- The hybrid model combines within-best human teachers and technological tools.

Here's how:

Flipped Classrooms: Students acquire and practice new knowledge online through teacher-facilitated discussions and activities.

AI-Powered Teaching Assistants: Facilitates grading and administrative work to concentrate more on mentoring by the teacher.

Virtual Collaboration: Online tools can connect students and teachers worldwide, thus creating global learning communities.



Conclusion: The Match Made in Heaven

As technology is changing the face of education, it can never be a substitute for the human factor of teachers. The future of education lies in balancing technology with teachers, so technology is used to enable, not replace, the teachers.

Education is evolving with technology, increasing accessibility and efficiency through AI-enabled tutors, virtual classes, and specialized e-learning systems. Although supplementary tools can aid in teaching, nothing can replace the attention of teachers.

Machines can impart formulas, techniques, and concepts, but teaching is far more inclusive. Teachers help develop an inquisitive approach, creativity, and enthusiasm for learning. They appreciate, take care of, and provide necessary guidance and reasoning skills that AI cannot offer. Technology can provide individualized instruction and pour over vast amounts of data, but it lacks compassion and the capacity to genuinely appreciate the complexities of a student's problems.

Furthermore, gaining knowledge is not a one-way process; rather, it is a form of interaction. A teacher allows students to tackle problems and gain self-confidence and important life skills. Rather, use technology to enable rather than replace the educator Technology can greatly assist education, but not teachers.

Our efforts should be channeled towards ensuring that educators enjoy using Al and other technological ranges, while firmly placing the irreplaceable human touch at the fore of learning. We must remember that while Al is capable of imparting the principles of calculus, it will never be the one to spark curiosity and passion for knowledge.

Come on, machines can indeed teach you calculus, but only through a teacher can you learn to love learning for the rest of your life!

In summary, teachers are still needed regardless of new technology that can improve schooling. The ability to relate, guide, and integrate emotions to aid in one's learning is essential, and these features cannot be completely automated.

IS TRADITIONAL HOMEWORK FADING AWAY?

THE MOVE TOWARD INTERACTIVE LEARNING

Rehan Prashar, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 26–34.



The Evolving Landscape of Homework

For decades, homework—typically aimed at reinforcing classroom lessons through written tasks, problem-solving activities, and reading assignments—has been a fundamental element of the educational framework. Nevertheless, in recent times, there has been an increasing discussion regarding the efficacy of traditional homework. Educators and researchers are beginning to question whether conventional homework, which frequently consists of repetitive tasks completed independently, truly fulfils the needs of today's students. In contrast, interactive projects that incorporate technology, practical applications, and collaborative efforts are surfacing as more effective options.

This transition prompts significant inquiries:

Is traditional homework becoming outdated, or is it transforming to better align with the requirements of a digital, skills-oriented economy?

The decrease in traditional assignments:

1. Mental Health and Well-Being

- Research indicates that an overload of homework can lead to increased stress, anxiety, and even sleeplessness among students.
- The American Psychological Association reports that roughly 40% of students feel overwhelmed due to their homework load.
- Globally, students frequently voice their exasperation with the demands of completing assignments, which can create tension during family time, limit involvement in extracurriculars, and reduce sleep.
- This challenge is intensified in regions where students are already dealing with socioeconomic difficulties.
- 2. Lack of Engagement and Individuality
 - A significant number of conventional homework tasks prioritize memorization over encouraging critical thinking and deep comprehension.
 - A common instance is the repetitive cycle of worksheets that compel students to merely recall information instead of analyzing, evaluating, or creatively engaging with the subject matter.
 - Studies show that passive learning techniques, such as performing repetitive exercises from textbooks, do not enhance long-term retention.
 - Students often complete these assignments mechanically, without genuinely engaging with or absorbing the material.
- 3. Accessibility Challenges and Disparities
 - Not all students have the same access to essential resources, including computers, reliable internet, or a quiet area to study.
 - Consequently, homework can widen the achievement gap, especially for students from underprivileged backgrounds.
 - For example, research from the Organization for Economic Co-operation and Development (OECD) suggests that children from affluent families tend to gain more from homework, whereas those from lower-income families face barriers due to external issues like limited resources.

- 4. Diminished Academic Returns
 - Studies have revealed that, beyond a certain threshold, additional homework contributes little to a student's academic success.
 - Finland, recognized for having one of the world's top education systems, assigns very little homework yet consistently ranks highly in literacy, math, and science.
 - A Duke University study indicates that, while a moderate amount of homework assists secondary school students in achieving more, excessive homework leads to decreased returns on academic performance.

5. Evolving Educational Aims

- The focus in education is shifting away from traditional memorization toward cultivating skills. Critical thinking, collaboration, adaptability, and problem-solving are emerging as central to education.
- To prepare students for future careers, many schools are embracing project-based learning and practical applications that extend beyond textbook knowledge.



The Rise Of Interactive Projects: What Constitutes Interactive Assignments?

Interactive assignments encompass engaging, technology-driven learning experiences that promote student participation, collaboration, and deeper comprehension.

Instead of passively working through worksheets, students interact with multimedia content, simulations, and real-world applications.

These tasks encourage creativity, teamwork, and problem-solving while providing students with immediate feedback to monitor their progress.

Advantages of Interactive Learning

- Increased Engagement and Motivation
- When education incorporates interactive features like gamification, quizzes, and digital storytelling, students find the learning process more enjoyable.
- Platforms such as Kahoot! and Quizizz have transformed student engagement by turning lessons into exciting, competitive activities.
- Tailored Learning Experiences
- Al-enhanced platforms like Google Classroom and Duolingo adapt assignments to align with the individual learning styles and needs of each student.
- This customized method guarantees that every learner receives feedback suited to their progress, boosting engagement and outcomes.
- Enhanced Practical Application
- Interactive projects enable students to acquire critical skills necessary for their future careers, including computer literacy, communication, and teamwork.
- For instance, project-based learning challenges students to address realworld issues instead of simply memorizing information.
- This approach not only deepens understanding but also prepares students with valuable skills for the job market.
- Immediate Feedback and Progress Tracking
- Digital tools offer students real-time feedback, helping them swiftly identify strengths and areas needing improvement.

Real-World Illustrations Of Engaging Learning Tools

GAMIFIED PLATFORMS:

Applications such as Kahoot! and Quizizz captivate students with quizzes and activities that make learning a lively competition.

AI TUTORS AND LEARNING ASSISTANTS:

Tools like ChatGPT, Duolingo, and Microsoft Reading Coach offer immediate, personalized feedback to assist students throughout their educational experience.

VIRTUAL REALITY (VR) AND AUGMENTED REALITY (AR):

VR and AR technologies let students dive into subjects such as physics, history, and geography, enriching their education by extending it beyond traditional textbooks.

COLLABORATIVE TOOLS:

Services like Google Classroom, Microsoft Teams, and Edmodo allow students to collaborate on projects, promoting teamwork even in online learning settings.

The Effect Of Technology On Educational Advancement

The Influence of EdTech on Homework

- The emergence of Educational Technology (EdTech) has transformed how students interact with learning tools.
- Blended learning models, which integrate digital resources with conventional classroom tasks, are creating a more well-rounded educational atmosphere.
- Al-driven analytics assist educators in pinpointing learning deficiencies and tailoring instruction to cater to each student's specific requirements, making education more efficient and individualized.
- Flipped classrooms: an innovative homework methodIn a flipped classroom model, students study theoretical material at home through video lessons, readings, and interactive resources, while classroom time focuses on discussions, problem-solving, and practical activities.

• This method shifts passive learning to the home environment and promotes active engagement during class time, aiding in concept clarification and deepening comprehension.

Ethical Concerns Associated With Digital Homework

- Screen Time and Digital Fatigue
- Prolonged exposure to screens can lead to digital exhaustion, reduced attention spans, and eye strain.
- It's crucial to balance online tasks with offline activities to help students sustain healthy study routines.
- Digital Gap and Access to Technology
- Not all learners have reliable internet or device access consistently, which creates obstacles for entirely digital homework tasks.
- Schools must guarantee the equitable availability of digital tools and resources to prevent the widening of the digital divide.
- Teacher Preparedness and Adaptation

Educators require adequate training to seamlessly integrate technology into their teaching.

The shift to digital education can be challenging for traditional instructors who may not yet be comfortable using technology in their classrooms.

Is Traditional Homework Changing Or Facing Extinction?

The blended approach where classic homework is merged with modern, interactive methods represents the future of education. While traditional assignments still hold significant value in nurturing discipline, research abilities, and self-directed learning, they are increasingly being complemented by more engaging, practical assignments that improve knowledge application and promote critical thinking.



FUTURE IMPLICATIONS FOR ADAPTIVE ASSIGNMENTS

1. AI-POWERED LEARNING SYSTEMS

Learning systems driven by AI will evaluate student performance and offer personalized educational experiences.

These systems will assist students in recognizing their weaknesses and provide customized resources for improvement.

2. BLOCKCHAIN IN EDUCATION

The implementation of blockchain technology will facilitate secure monitoring of academic achievement and student progress, introducing innovative methods to verify learning outcomes.

3. MICRO-CREDENTIALS AND DIGITAL CERTIFICATIONS

Micro-credentials and digital credentials will become more significant as a way to validate skill-oriented education, equipping students with relevant skills for the job market.

4. PROJECT-BASED AND PEER-REVIEWED ACTIVITIES

Engaging in project-based learning and peer-reviewed tasks will foster teamwork, critical thinking, and solutions for real-world challenges.

Peer assessments will provide a variety of perspectives, enhancing students' comprehension.

IMPORTANT LESSONS

Although traditional homework faces criticism regarding its effects on mental health, engagement, and inequality, interactive assignments present an

appealing option that delivers practical learning experiences, personalization, and heightened motivation.

Technological innovations, including virtual reality, gamified platforms, and Al tutors, are reshaping education, leading to a future of homework that will likely encompass a blended model, merging the advantages of both conventional and interactive approaches to enhance learning outcomes.

In the end, an effective strategy will require a balance—integrating the discipline and concentration of traditional homework with the engagement and practicality of interactive, technology-enhanced learning.



CONCLUSION

The approach to homework has shifted to technology-based methods within learning environments because it matches the current student requirements in our modern times. A combination of established pedagogies and modern educational methods in mixed education systems will produce effective classrooms to teach students skills needed for the future. Modern educational technologies merged with traditional approaches enable schools to create supportive systems that develop students in all aspects before their interaction with an ever-changing world.

TECH FREE LEARNING

DOES IT HELP STUDENTS FOCUS?

Sarthak Kumar, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 35–40.

Introduction

In today's hyper-connected world, technology surrounds us and has become an integral part of our lives. From smartphones to laptops, physical books to e-books, we constantly engage with screens, which introduce various distractions instead of learning. While it is true that technology has made our lives easier, people are starting to overlook fundamental aspects of life. It is essential to recognise how technology has gained significant control over our lives and take necessary actions to address this imbalance.

In this article, we will discuss how we can create Tech-free learning, its benefits, purpose, and reasons to choose tech-free learning. We will also explore the major differences between tech-based and non-tech learning methods, upcoming challenges, steps to make learning tech-free etc.

Tech-free learning

Tech-free learning is an educational approach that intentionally excludes or minimizes the use of technology in the learning process. This approach values the richness of reading physical books, allowing students to involve themselves in literature and explore ideas without any distractions often associated with screens. It fosters meaningful face-to-face interactions, where learners can engage in discussions, share insights, and build social skills through communication. Additionally, tech-free learning promotes hands-on activities, encouraging students to participate in arts and crafts, or practical exercises that enhance their understanding through direct experience. By focusing on these traditional methods, this approach aims to build critical thinking, creativity, and interpersonal skills while reducing reliance on digital devices.

But here, a question arises as to why one should consider tech-free learning over tech learning, which is much better and has engaging content through which students won't get bored and learn effectively and efficiently. Indeed, reading books and notes is not an easy task, but this world is full of copying and presenting fake information that misleads students, so one can fail to get authentic data if he or she is learning through tech. Things are quite different in non-tech learning, there, you get real knowledge and build skills like creativity, critical thinking, and most importantly, studying for longer hours with great focus. The purpose of learning without technology is to foster different skills and learning styles that might be overlooked in technology-heavy environments.

Benefits of Tech-free learning

- Focus and Concentration: By removing distractions from screens and notifications, tech-free learning can promote deeper focus and concentration on the material at hand. Because these two are acting as a barrier. For example:- While studying, turn off notification settings or just keep your mobile or laptop aside for the time you are reading.
- Improve Social Skills: Face-to-face interaction and collaboration play a crucial role in developing social skills. For example:- communicating with tech devices may degrade your social skills. Connecting with people around you and having a face-to-face interaction can build you socially and help you to get good moral values.
- Reduced Screen Time and Potential Health Issues: Limiting screen time can reduce the risk of eye strain, sleep disturbances, and other health issues associated with excessive technology use. Example:- our eyes are very sensitive. They get affected by white light which causes eye problems or headaches, so to avoid it reduce screen time or you may turn on reading mode on your mobile phones.
- Reduces feeling of oneness : You need to accept that technology has made communication faster and established virtual connection with people across the world. But in real life when you look around, you found yourself that no one is there to talk with you, enjoy with you. Technology became so important to you that your bonds began to reduce and create a feeling of oneness. Closing your phone, laptops allows you to create real bonds, real communication.
- Reduces stress and Anxiety: Being constantly contacted to e-mails, news articles, scrolling through reels , shorts, make your mind stressed and even

you get pissed off on simple things. By unplugging from technology your mind reboots and make you feel relaxed and bring back to present things.

 Time-saving : There's a saying "Time is money" and what do, we spend our important time in surfing internet that's not going to help us in any way, we are killing our precious time. By taking breaks from tech objects we can save plenty of time and utilise it better . Also instead of watching useless content you can consume informative content as well.

1. Challenges of Tech-Free Learning

- Limited Access to Information and Resources: Tech-free learning can limit access to online resources, educational websites, and digital tools that can enhance learning. Example:- someone is preparing for civil services examinations, he or she needs information about daily happenings in the world and society. This is accessible only through online resources.
- Reduced Engagement: Some students may find tech-free learning less engaging and may become disengaged due to the lack of interactive elements and multimedia. This acts as the biggest challenge when we think about learning by reading books. For Example:- Books like maths, and physics contain only text-based information which can reduce reading, whereas learning from online sources like YouTube makes these maths, physics, chemistry, and biology more attractive through animations which students find more engaging.
- Lack of Flexibility: Tech-free learning may not be suitable for all learning styles or situations, as some students may learn better with technology. For example:- In today's fast-paced environment everyone is born in a technological society where learning from organic sources (like books, coaching, and one-to-one interaction is known to very few people, all of them want to learn digitally and get the best online notes. On the other hand, some may not be able to afford mobile phones, laptops act as a barrier to learning.
- Privacy Concerns : While using technology one knowingly or unknowingly shares his/her personal information and by this they put their life at high risk. There are apps that collects your data and may blackmail you in future. Reading all the safety measures and privacy policy of such apps can help in protecting your privacy.

- Slow Progress : Nowadays technological advancements is at its peak, by which your brain don't need to hustle much to slove a numerical, all your work will be done very effortlessly. This degrades ones mental progress and slow their mind. Google assistant can be seen as an example to this.
- Replacement of Teacher's : Nobody thought that one day through technology teaching can be made possible and its so much fine that they are replying physical teachers giving them nightmares. Many talented faculties are jobless after the AI generated teachers came into the race. This a drawback of technology. Teachers and students were sharing good bonds felt more comfortable and connected but when Tech-teaching made its exposure things got changed they had best knowledge of everything but were missing one important element and that's human emotion that only physical teachers can have.

There are some Preventive measures one should take to avoid excessive use of technology; Students can indulge themselves in hybrid learning techniques, it includes physical learning as well as online learning. It offers Flexibility in online studying while still providing the touch of traditional classrooms because everyone should have an exposure of both the modes. There are several benefits of hybrid learning, students reported that learning from both sides was more engaging and they can score good in exams. Also this Hybridization came into light during the pandemic period of COVID -19 when everything was shutdown.

In that period many students made good use of that opportunity but later things changed and it increased their screen time from 2 hours to 10 hours a day.

One can set limit to their screen by allocating specific time frame to particular apps for example YouTube for not more than 2 hours, also adding reminder to take initial brakes between video lectures to give rest to mind and eyes. This limit should be in between 2 hours to 5 hours and not more than that.



Living in a society that is fully driven by technology has its own drawbacks, like regular connectivity and over-exposure to screens, which can impact our mental health, sleep disorders, anxiety, stress, etc. It can also hinder our ability to think, which may reduce our productivity. Taking regular breaks from technology is very crucial to maintain a healthy and balanced life.

What is a tech-free zone:- It's a physical space or specific period where technology is kept aside, and by creating such a zone, we make a haven from digital noise.

See no one can completely cut themselves from technology so there are some steps to create a Tech-free zone that acts as a Pomodoro to tackle these hurdles:-

- 1. Select a suitable space at your home where no tech objects are there. It might be a corner in the living room or a separate room where you are surrounded only by books and notes and study for longer hours.
- 2. Remove all types of distractions while studying to gain more focus, this helps to reduce the temptations to engage with it. Having mobile phones in the place where we study, our mind constantly triggers us to use them and spend quality time scrolling through videos, removing mobile phones from your learning zone can help to focus more.

- 3. Explore hobbies such as reading books, meditation, reading journals, and learning new things like skating and swimming. These all would help you to disconnect from the digital world and connect with your surroundings, because no one can read for a complete 24 hours, doing extra activities makes one's mind more sharper and relaxed.
- 4. Make a daily habit where you dedicate some hours or specific periods during the day to switch off from tech. For example:- you can choose the time of evening because that particular period is best for going out, walking on the streets, and in that time make yourself tech-free, doing this on a regular basis can help you take breaks from the screen and focus on your goals.

Practising all these steps regularly can help students focus on their studies; the start is going to be tough, but taking baby steps will create a stressful and happy life.

In conclusion all these:- Switching off from technology allows us to engage in other activities and find respite from the digital noise. So, let's prioritise our mental health by incorporating tech-free zones into our lives.

THE FUTURE OF EXAMS OPEN-BOOK, AI PROCTORED, OR NO-EXAMS AT ALL?

Rashika Shaw, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 41–46.

Introduction

The concept of modern exams was developed by Henry Fischel, a German-American professor in the late 1800s. Previously, the main motive behind conducting the examination was to select qualified candidates for government positions. In addition to this, the main purpose of conducting the exam was to promote efficiency, fairness, and competence in governance. Exams have been a valuable tool for centuries to measure the level of intelligence and competence.

Henry Mishel American



The first person to invent the concept of exam

Importance of Exam

Exams are an important aspect of the student's academic journey, and this approach not only helps students evaluate their knowledge but also understand the subject, which later helps in building their confidence. Regular exams prepare students to face challenges and give their best to perform under pressure, ultimately enhancing their level of confidence.

The outbreak of the COVID-19 pandemic brought a paradigm shift in the examination process. After the strict lockdown announced by the Government, schools were closed. As a result, school authorities adopted online teaching methods to deliver lectures and ensure continuity in learning. To tackle the challenge posed by the COVID-19 outbreak in the industry of education use of online classes and exams became popular. The adoption of the latest technology and the growing adoption of remote examination along with remote learning facilities transformed the concept of the traditional exam conduction process.

With the advancement in technology, the future of examination is also going to look very different. Examinations have also evolved in response to modern educational needs to help students better understand their weaknesses, strengths and learning progress. Technological advancements are shaping the future of examinations. Digital solutions have transformed the ways exams are being conducted to assess the progress of a student in school and select the right candidate for the workplace. The assessment methods such as AI-based proctoring, and open book exams were available previously before COVID-19, but their adoption was limited. During a pandemic, when most universities and educational institutes shifted towards online education, the adoption of AIproctored, open-book assessment methods increased to improve the academic integrity and well-being of the students. As reported by Statista, the revenue of the online education market is projected to reach US\$203.81bn in 2025. In addition, the revenue is expected to showcase an annual growth rate of 8.20%, resulting in an increase in market volume of US\$279.30bn by 2029. This data indicates that online learning and online exam assessment approaches are going to stay here as a part of global learning.

Al proctored exam: The future of surveillance or an invasion of privacy

Al-powered proctoring is used to recognise cheating and malpractice in the examination through video and audio feeds. The advantage of this Al-powered proctoring is that it can flag any suspicious behaviour in real-time, allowing administrators to take necessary actions when required. This technology not only prevents the chances of cheating in the examination but also reduces the cost of hiring invigilators. In 2020, due to the lockdown, institutions such as the "Indian Institute of Management (IIM) Kashipur" adopted this technology that enabled students to take exams from their homes. "Graduate Management Admission Council (GMAC)" also announced the "Graduate Management

Admission Test (GMAT)" to assess the ability and skill of candidates to take admission in graduate business programs.

Interactive Assessments

Interactive assessments are the assessments in which the marks of the exam are evaluated with the help of a computer or mobile device. This method is helpful for the students learning through a modern educational approach, and this includes assessment through oral presentation, submitting research papers, and individual creative performances. Apps such as Duolingo or Babbel are widely used by both students and working professionals to improve their language skills with the help of gamified challenges and quizzes. Duolingo, through its interactive and gamified approach, allows people to learn over 30 languages. The app also uses Machine Learning and Artificial intelligencebased algorithms to personalise the learning experiences of the users.

Nevertheless, it is argued in the study of Aditya Johri and Ashish Hingle that Al proctored exam invades the privacy of individuals as the AI proctored exams require individuals to show their face, identification, and other things which is a matter of concern. The students feel concerned about who watches their recordings and how the information shared by them is used by the university authorities. Furthermore, the AI-proctored test often requires students to ensure that they are alone in the room, and if they raise their eyes upward while thinking they are considered to be cheating leading to being kicked out from the examination. Moreover, the AI proctored exam requires trans students to use their government-issued ID before the start of the test which puts trans students in vulnerable positions. The AI-based systems have a history of discriminating the individuals as if these systems are not trained properly and are capable of detecting only white skin people with accuracy. Thus, it is inferred that AIproctored exams pose significant privacy concerns as they require students to share personal data including identification and facial recognition raising concerns regarding surveillance and data misuse.

Open Book Exams

Post-pandemic educational institutions have explored different learning and teaching approaches, which include open-book assessments. The main motive behind the conduction of this exam is to test the critical thinking capability of the students. Open book exams are supposed to foster deeper engagement with the study material by students reducing the scope of memorisation focusing on comprehending the concepts, and formulating answers based on the concepts learned in the classes. This method recognises that in the real world, professionals refer to the resources instead of relying solely upon memory. In this assessment, students are allowed to access notes, textbooks and digital resources during the test. There are a few advantages of this approach it encourages high-order thinking instead of regurgitating facts. Since students don't need to memorise vast amounts of information, the shift focuses towards real-world applications. The open book exams encourage students to develop problem-solving skills rather than focusing on memorisation of techniques. Open-book exams address the concerns of traditional learning such as memorisation and lack of problem-solving skills, but Al-proctored exams are preferable in online courses to evaluate the performance of the students.

No exams at all? A radical approach to learning assessment

A more radical approach to deal with the concerns associated with traditional exams is the elimination of the exam. A no-exam approach emphasises project-based learning and real-world application of knowledge.

Project-based Learning

Project-based learning allows students to engage in hands-on, meaningful tasks that reflect real-world challenges. This approach focuses on life-long learning instead of short-term retention. Project-based is a student-centered and inquiry-based teaching approach that allows students to actively engage in projects that address real-world issues thereby fostering critical thinking, problem-solving, and collaboration skills. For example, for the subject of History students should be given an assignment to create a documentary about historical events rather than memorizing dates for an exam.

Real-world application of knowledge

This involves engaging students in internships and apprenticeships to gain hands-on experience. Actively taking part in apprenticeships and internships helps students in the development of confidence, building adaptability and confidence. Today, the fast-changing market of job apprenticeships and internships has become increasingly important for the development of skills. This approach not only quip with team building skills but also enables students to gain the opportunity to a professional atmosphere. For instance, students should be encouraged to develop a business simulation instead of solving numerical problems to better analyze business trends. Similarly, for IT-based subjects' students should be encouraged to develop an app or website instead of writing theoretical programs for exams.



Challenges in AI proctored, Open book, and no exam approach.

It is important to note that each alternative to the traditional exam comes with its own set of challenges. Al-proctored exams raise ethical and privacy concerns. The primary concern with Al in education is the large-scale analysis and collection of data, including academic behaviour patterns and performance raises questions on how this data is being stored, used, and accessed. The sensitive data collected by Al systems can put students at risk of cyber-attack.

On the other hand, the open book exams require a shift in teaching methodology; students have to spend lots of time in the research process to answer the questions in the examination.

Thus, students need training to adapt to open-book assessment approaches successfully. The open book exam demands a rethinking of how academic achievement should be measured by employers, institutions and educators to develop new standards of evaluation. 'The main goal of education should not be to know how well students perform under artificial constraints but about how they can apply their knowledge critically and effectively to real-world problems.

Conclusion: Rethinking Exam

Given these challenges, the key debate is whether we need better exams or if eliminating exams would be a more effective approach. The problem is not the assessment method used to evaluate fairness but the problems are grades which are used to understand the social worth of any individual. The traditional approach of taking exams is primarily used to rank students rather than to measure their actual learning. However, eliminating them would be as misguided as insisting on never using a particular tool. Whether it be through Aldriven monitoring or an open book assessment approach, the ultimate goal of conducting an exam should be to foster creativity, understanding, and realworld skills, cultivating thinkers, lifelong learners and innovators to easily navigate the challenges of the real world.

THE POWER OF STORYTELLING IN DIGITAL LEARNING

Bavithra P, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 47–51.

The Power of Storytelling in Digital Learning

Literacy is the way of gaining knowledge and chops by understanding the concept. Before understanding the conception of literacy, the preceptors should know how the learners engage or flashback to the environment in the academic institutions. Storytelling is introduced in educational surroundings to make a better literacy experience. Indeed, though storytelling is a traditional method, its impact in no way fades down in our minds. Storytelling is one of the tutoring methods that explores creativity, entertainment, and the power of understanding the theme snappily. In storytelling, communication and interaction play a vital role in helping the content to be better immersed. To find out what the need for storytelling in digital learning is, it also seeks the usage of storytelling and its flow among the learners.

Stories stimulate the learner's interest, expectations, and eagerness to learn something. A story inspires everyone because of the connectivity among the people. Stories have an inevitable energy or power to connect their emotions and personal feelings. So that everyone drowns in each tale and recalls their nostalgic experiences. Storytelling is an art. The human community likes the stories. Stories not only teach moral values; additionally, they would be delightful and instructive. Globally, it could be seen through paintings in ancient times and also has advanced in every culture from caves to digital media.

In the rapidly evolving world of eLearning, storytelling has become a pleasant way to learn. It has emerged as a significant weapon of learning to communicate, engage, learn, and motivate among the learners. In ancient eras, storytelling was an essential segment of communication and learning. The same method has been traced in today's generation also through digital media. It has explored a unique way of digital media. In this article, we are going to understand how storytelling is used in digital learning effectively and its benefits, which are provided to both learners and educators.

Storytelling also develops curiosity, engagement, and retention with the context during the learning process. Storytelling is common. But it differs around the surroundings. For example, digital learning depends upon the content of the subject matter, learning outcomes, and the way of teaching regarding the educational environment. With the help of digital media, the context of the subject transforms into a visual illustration and incorporates narrative experiences. Storytelling on digital platforms stimulates their interest in addition to proceeding further to learn the next lesson in the learning. Their curiosity does not stick at one point; in contrast, it leads to analysis and sharing the knowledge in various learning ways. The traditional classroom leads to a lack of interest among the learners and also a lack of interaction between the educators and learners. Whereas digital platforms, like applications, websites, presentations, videos, and live streams, using storytelling, create an inevitable impact on the learners. It helps to make the subject easier and more understandable in these methods.

In digital learning, storytelling is significant because it makes the content memorable with unique creativity. Not only that, the advantage of storytelling with digital media has enhanced the learner's interest level and retention with the subject and made them curious to learn something new. It makes the subject from complex to easy-peasy relevant. It has served as a means of sharing knowledge, human values, and their traditions or cultures.

In storytelling, there are various ways to incorporate the stories into digital learning. It depends on the educators, who should know about the learning objectives clearly based on whether they figure out the learning outcomes as they expect. The types of stories are personal stories, case studies, scenario-based learning, and fictional narratives.

- Personal Stories—In this approach, educators/tutors express their own or others' life experiences and situations. It connects easily with learners personally. It effectively helps to improve their personal development.
- Case Studies—This approach expresses the problems and situations that happen in real-life scenarios. In this case, whenever the learners have some problems in their learning, they are guided or instructed by the

educators through the process of analyzing and rectifying their issues. It enhances the skills of problem-solving, critical thinking, analytical skills, and decision-making.

- Scenario-based Learning—In this approach, where the situation is real but the learners place it in a fictional area. Here, the choice of the decision depends on the learners based on the situations and experiences. Their decision may be positive or negative. It doesn't matter. It creates the learner's critical thinking and decision-making skills in their own life.
- Fictional Narratives—This approach means a story that is created by fictional narratives. Here, the challenges and problems are related to the content of the subject. The characters are designed, and their motive is to face these challenges and problems. The learner's responsibility is to process the next task and clear those tasks alongside helping to learn the subject. This format is applicable in gamification eLearning.

The educators should handle these potential digital platforms to utilize them. It makes the purpose of learning more accessible to every interested learner. They should know how to modify these narrative experiences in the digital storytelling regarding their needs in learning. The educators should be aware while preparing the syllabus of the subject, learning objectives, and outcomes. They need to first incorporate stories, collect the materials, assemble them step by step, and create the data by using digital technology regarding the learner's interest.

Figure out the intended learning objectives.

While the educators are preparing the learning objectives, it is very crucial to remember such things as defining the subject crystal clear in digital storytelling. After they have explored the learning objectives, they need to create a story that supports and strengthens the objectives more.

Make Relevant Characters

Once the preparation of defining learning objectives with a story has finished, then create the relatable characters for it. Because the characters give life to the story. So, the importance of the characters is an inevitable thing. These characters would relate to the learners and sympathize with them. Either the characters are real people or fictional personalities; they should reflect what the challenges and intentions are for the learners. Because the learners might experience how to confront these tasks in real life.

Create an engaging story.

A well-written plot is the cornerstone of the story. The plot should be in the order of introducing the characters, figuring out the conflicts or problems, rapidly increasing the anxiety, and finally leading to finding the solution. This kind of planned plot would be well engaged with the learners and desire to know how the plot unravels.

Usage of digital technology and interactive elements

With the help of social media platforms and elements like colorful images, videos, animations, and audio, it can enhance the learners' keeping in touch with learning. Likewise, the interactive elements, such as quizzes and gamification in the stories, make even more interest and concentration alongside learning in depth. These kinds of stories never fade away in the minds of learners and also gain experience from the learning.

Present Real-Life Samples

When it comes to the examples in the storytelling, provide some real samples and case studies. With the help of these examples, the learners might get a chance to associate the theory with practical subjects. Because those kinds of examples explore the demonstration of the practical application of the subject. As a result, it might strengthen the learners' learning knowledge. Making an impressive digital storytelling experience expresses a mixture of unique plot and multimedia platform things.

Benefits of Digital Storytelling

The story instructs the moral values from ancient times to today. Stories inspire everyone in funny ways also, what kind of benefits do both the educators and the learners take away from it?

- Develop engagement
- Increase retention

- Improve critical thinking
- Encourage emotional connection
- Create real-life world skills
- Stimulate lifelong learning

The benefits of digital storytelling are astonishing. This kind of interactive storytelling presents a powerful impact on learning for both the learners and educators. Because it creates a more valuable, fruitful, and delightful learning experience.

THE ROLE OF PODCASTS IN MODERN EDUCATION

Anuja Melshetti, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 52–57.

The term "podcasting" is derived from combining the words iPod and broadcasting. The phrase can now be used to describe any portable music player that enables users to download sound files over the internet, not just iPod-related broadcasts. A lot of "poddies," or podcast listeners, download and play these audio files on their personal computers. Usually, sound files are compressed to MP3 format for easier downloads, especially on devices with limited capacity or over dial-up connections. Thus, iPods and other like players are referred to as MP3 players.

Although some authors restrict the term "podcasting" to the automatic distribution of files to users' devices via RSS (Real Simple Syndication) feeds, consumers typically visit websites and click on links to download podcasts of their choosing. Thus far the industry of podcasts retains an amazing rate of change. Google's search engine returned 24 web page results with "podcasts" in its search results in 2004. In November of 2007, Google searched 124 million times but in 2004 merely 24 web pages containing the term "podcasts." Two podcast-based services generate revenue for radio stations: they sell music on Apple iTunes and they offer a paid listing facility for free music and chat show audios. The evolution from podcasts to vodcasts provides users with access to television programs along with movie material and videos.

1. Accessibility and Flexibility of Podcasts in Learning

In a 2005 article titled "There's Something in the Air: Podcasting in Education," G. Campbell argues that there has been a complete shift in educational flexibility and accessibility provided by podcasts. Podcasts come with a mobile and ondemand learning experience and allow students to access educational content from anywhere and at any time. The flexibility is especially beneficial to students who live in rural areas, have disabilities, or are busy with work or family. "One of the big benefits of a podcast is that it removes the time and place constraints of classroom learning. Podcasting is more self-directed learning than lecture learning, where the student must sit in for a lecture at a set time." By stopping, rewinding, and re-listening to challenging material, students can get a better understanding of the content and retain the information better. Campbell even mentions how podcasts engage multiple learning preferences and specifically benefit auditory learners, who learn better through hearing compared to reading. In addition, the listening experience can be considered an additional resource, or learning companion, to traditional texts and lectures. The versatility of podcasts becomes even more practical through the devices it is accessible across: smartphones, laptops, tablets, and smart speakers. This allows students to listen to content while on their way to school, exercising, or running errands, providing opportunities for the learning experience to fit into their daily lives.

A recent study conducted by Samarnh Pang and Chenda Khan in 2018 reflects the idea of a podcast and its learning outcome. Their findings show that students creating podcast activities have enabled them to achieve several remarkable learning outcomes including improved English–speaking vocabulary in-depth thinking collaborative skills and sociocultural awareness. They had involved two groups of students in two content-based courses over a one-semester course of 18 weeks. Another study conducted by Ema Meden

et al., 2024 explores how podcast accessibility fosters learning, examining listener engagement, content preferences, and the unique educational opportunities they offer. Scholars employed an internet survey to assess the reaction from 605 people who primarily reflected this group of people. Educative material presents higher confidence levels while appearing in podcasts compared to while in any other presentation form. Learners comprehend occupational worth from podcasts but do not have sufficient online ability to practice competent critical thinking.

2. Diverse learning resource

Podcasts are a growing learning tool. The educational podcasts are enjoyable, interactive, and convenient to access. Social and Business educational podcasts are having a special impact in India. People love listening to podcasts on science, history, self-improvement, and money. Several educational podcasts in India have emerged as popular learning resources. Harsha Bhogle's "Mission ISRO" delves into the depths of India's space journey, making science and technology pertinent and interesting to students. There is also Pavan Srinath's "The Pragati Podcast" which helps listeners understand public policy, governance, and world affairs, and how political science and economics play out in the real world. And, of course, podcasts are great for blending various topics. "Anupam Gupta's Paisa Vaisa' makes it effortlessly easy for one and all to understand money trends, investments, and personal finance so that you have no hassle with financial literacy. On the other hand, Kedar Nimkar's podcast "Audiogyan" focuses on Indian art, design and philosophy. It is ideal for students and corporate professionals who are fond of creative arts and culture".

3. Enhancing engagement and retention

Podcasts are a fun and engaging way to join in on various topics and learn more through a direct style of participation. Unlike traditional texts and speeches, the podcasts present incredible stories, business interviews, and reallife experiences to make comprehension easy. One of the main methods podcasts help people remember something is through storytelling and conversation. For example, Dan Carlin's "Hardcore History" on Spotify turns hard history into interesting stories, and students can remember facts easily and understand the context. "TED Talks Daily" similarly explains great ideas in simple conversations with world-class experts in various fields. Podcasts are a fun and engaging way to get involved and learn more through a direct style of participation.

When you learn through this method, you remember more as you connect those difficult concepts with real-life examples. Also, educational podcasts such as "The Edtech Podcast" talk about the future of online learning, providing teachers and students with tips to enhance learning techniques. Podcasts continuously merge expert opinion along with the practical implementation of the same, making sure that the listeners interact actively with the information and remember it, as opposed to receiving it passively. Podcasts provide a multi-sensory learning experience to help you better understand and remember things. Educational podcasts like storytelling, expert interviews, and myth-busting available on Spotify are making learning fun, flexible, and effective for learners around the world.

4. Supplementing traditional education

Supplementing traditional education with podcasts is effective for helping students review studied topics and gain insights into things that are not usually

found in textbooks. In an engaging and quite user-friendly manner, they assist in encouraging independent learning and thinking. Several are also starting to use podcasts in lesson plans as additional readings to create meaningful discussions on various topics and introduce diverse viewpoints on these matters. Either to complement or introduce some new ideas, podcasts could be used to make learning much more engaging and fun. 'The Socially Desi Show' is a popular show that delves into topics such as career development, selfimprovement, and mental health, relevant topics to students. These kinds of podcasts are meant to train the students for real-life situations while imparting skills for life, giving them insights into the practical issues that exist in this world, hence allowing their classroom learning experience to complement academic learning. Another good example of this kind of work is Raj Shamani-an entrepreneur and content developer, who also hosts the podcast "Figuring Out". His podcast discusses topics related to entrepreneurship, finance, and career development, which offers insights for young students and aspiring entrepreneurs that are not generally included in the curricula of business schools. The podcast, in the real world, provides industry leaders with real-world business lessons for Raj Shamani to discuss to give students real-life lessons in economic theory, startups, and financial literacy.

5. Cost-Effective Learning Tool

Most educational podcasts are free or just charge small fees, thus allowing people of diverse backgrounds to enjoy quality education. They do not put any kind of monetary load on a learner to access information. While traditional learning through expensive coaches and books cannot, learning with podcasts allows for knowledge acquisition without heavy financial commitments. By doing away with the costly study materials, learners can learn anything they want at any time they choose to. From academic topics to skill development and self-improvement, various learning needs are addressed by several podcasts. For example, there is a podcast by the name Audiogyan by Kedar Nimkar, which gives away free insights into Indian art, design, and philosophy, allowing students and enthusiasts to access these topics with ease. Another example includes The EdSurge Podcast, which dives deep into the current issues related to the field of education technology. Also, there is The History Extra Podcast, which is all about wonderful historical stories. Lastly, Science Vs helps listeners get the facts right by clarifying many scientific topics in the space between science and pseudoscience. They are free resources for those of you who do not want the financial burden of traditional educational resources on your shoulders as you try to expand your knowledge.

6. Lifelong Learning Through Podcasts

The world today is a fast-changing environment. Continuous learning is necessary to meet personal and professional demands. An easy way for a lifelong learning of new and updated information across a wide array of subjects is achieved by podcasts. Traditional schooling ends where lifelong learning through podcast learning begins: school or college is but one station in a person's lifelong journey of learning and development. Thus, it can be listened to in almost any situation one wants: one can listen to a lecture while on the drive to work, at the gym, or just relaxing at home without interfering with one's schedule. Many working professionals turn to podcasts to skill up, catch up on trends in the industry, and gain meaningful insights from the experts. Various subjects like leadership, technology, and personal development are touched upon to allow the listeners to sharpen their knowledge and compete in the careers they desire. Financial literacy is an aspect of lifelong learning; many podcasts give listeners a lot of useful advice on managing money, investing, and even building wealth. Examples include 'Paisa Vaisa' by Anupam Gupta on topics of personal finance and investment decisions, which help the listener make better decisions about the future of their finances. There is also 'The Dave Ramsey Show' and 'Bigger Pockets Money Podcast' to give further assistance with budgets, savings, and real estate investments. In personal development, 'The Tim Ferriss Show' and 'The Happiness Lab' help listeners become better in their productivity, mindset, and general well-being. They make knowledge easily available and interesting to listen to, thus enabling people to adopt lifelong learning to acquire new skills and develop continuously on a personal and professional level.

The introduction of the podcast, an audio medium that has lately taken over education in ways hitherto unknown, has redefined accessibility, engagement, and affordability of learning for students and professionals alike. The emergence of Indian educational podcasters has enabled expert knowledge to be a reality with geographical or financial restrictions no longer an issue, and learners can acquire knowledge at their very own pace for skill-building and further widening the horizon. The Indian education industry is gradually accepting the importance of digital education with podcasts expected to take up an important role in the future of learning with flexible yet high-quality educational content for empowerment for personal and professional growth.

VIRTUAL FIELD TRIPS EXPLORING THE WORLD WITHOUT LEAVING HOME

Supriya Bhalerao, TechSphere Insights, March 2025, Volume 1, Issue 3, pp. 58–65.

This is the new digital era, where information flows seamlessly and connectivity fads-up geographical boundaries, education is undergoing a transformative evolution. This digital era truly expands the horizon of education and traditional learning. The traditional classroom, once confined by four walls and rigid schedules, is now expanding into boundless range of virtual exploration. This digital age expands the boundaries of education, making learning easier and more exciting.

Field trips are part of traditional learning, which gives student the real-life experience. Virtual field trips allow students to travel across the world and even space without leaving their classroom or home. This is the power of a 'Virtual Field Trip.



Introduction

Virtual Field Trips are digital experiences, where you can use different types of technologies to explore the World. We can visit heritage monuments, dive into the deep ocean, go to space or any planet, or even beyond. The technologies, such as 360-degree panoramic view videos, virtual reality (VR), live-stream tours, interactive maps, and augmented reality (AR), give you a real-world experience. This experience may be taken alone or with the guidance of experts. These experiences make boring lessons interesting and may give you knowledge beyond textbooks. Virtual field trips may include student activity or

interactions, which make learning more enthusiastic, curious, and more interesting, all from the comfort of students' homes. Virtual field trips cultivate a sense of curiosity, and engagement, fostering a deeper understanding of the subject.

Types of Virtual Field Trips



The versatility of virtual field trips allows for multifaceted approach to learning.

• Historical and Cultural:

These trips allow us to visit historical or heritage monuments with cultural value. Such trips transport learners to iconic landmarks and cultural institutions, offering a glimpse into the past and present. Imagine students using a Google Arts & Culture virtual tour to walk through the Palace of Versailles in France, examining the Hall of Mirrors and learning about the French Revolution through interactive pop-up information.

Not just monuments, we can explore world-renowned museums like the Louvre, examining masterpieces like the Mona Lisa all while absorbing contextual information through virtual guides and multimedia resources, or the British Museum through 360-degree imagery by virtual field trips.

• Science and Nature Adventures:

Take a virtual hike through the wonders of natural world; from wildlife reserves like the Amazon Rain Forest to learn about different species of animals, to diving deep into Ocean to familiarize with marine biology; from visiting any National / Botanical Park to identify different species of plants, to virtual trek to the hight of mountain ranges; or exploring scientific research canters.

For instance, a class could use a live webcam feed from the Monterey Bay Aquarium to observe sea otters playing in real-time, followed by a pre-recorded documentary about the kelp forests they inhabit. Or imagine a virtual visit to Yellowstone National Park, where students can observe geysers erupting and learn about the park's unique geological features.

• Space Exploration:

Space exploration is very enchanting area specially for budding scientists. These celestial voyages open the vast expanse of the Universe, allowing learner to explore planets, stars, and galaxies.



You can take a tour of the International Space Station with NASA's virtual program. Imagine using NASA's "Access Mars" website, which allows you to explore a 3D replica of the Martian surface, constructed from real images taken by the Curiosity rover, and even drive the rover virtually.

A virtual tour of the International Space Station, led by astronauts, can provide a first-hand perspective on life in orbit and the scientific research conducted in space. For example, virtually exploring the Hubble Space Telescope's deep field images, learning about the vastness of the Universe and the formation of galaxies.

• Career and Industry:

These trips involve exploring industries of interest like farms, factories, or laboratories. Discovering how any industry runs or companies operate is a funn-learn education. With live streams, you can experience a day in the life of professionals in film-making, corporate, or your dream career, broadening their understanding of career pathways.

For instance, a student interested in veterinary medicine could watch a livestreamed surgical procedure at a veterinary hospital, followed by a Q&A session with the attending veterinarian.

A virtual tour with a film director on a movie set can demystify the film-making process and inspire aspiring film-makers. Or virtual visit to a tech startup can introduce students to the world of entrepreneurship and innovation. • Inside Human Body:

These virtual trips explore an intricate look at human anatomy and physiology, allowing learners to delve into the complexities of the body's systems.

Interactive 3D models of the Heart, Brain, and other organs can provide a comprehensive understanding of their structure and function.

Virtual dissections conducted through simulations, can offer a safe and ethical alternative to traditional laboratory dissections.

Virtual Field Trips: - Tools / Technology

Virtual Trips are all about experiences, employing diversified tools and technology helps to create these immersive experiences.



• Live Webcams and Livestreams:

Livestreaming provides a real-time view of locations, like any historical monument or any scientific and natural adventure, giving us a 'present moment' experience and connections.

• 360-Degree Virtual Trips:

These are interactive tours, allowing you to explore the whole environment by panning or zooming, and often informative, giving deep knowledge of anything, like explaining research or diagrams. They may include exploring any museum or natural wonder.

• Pre-Recorded Video Trips:

These tours are often more informative, as they are recorded and edited neatly, offering precise information along with appropriate visuals and can be very useful to gain knowledge of any specific area of interest.

• Interactive Virtual Experiences:

Virtual Tours have an engaging factor, such as games or virtual reality (VR) experiences, and may involve live Q&A sessions with experts in different fields. These types of experiences are becoming more prevalent as technology continues to advance.

Virtual Field Trips: Benefits

Virtual Field Trips offer many benefits, especially in the era of a pandemic like CORONA.

• Accessibly and Inclusivity:

Virtual field trips allow students or users, who may have some financial issue, physical issue, or any other limitation that may prevent them from participating in traditional field trip. Virtual Field Trips includes all participants irrespective of age, gender, or any issue.

• Cost-Effectiveness:

Virtual Field Trips Eliminates transportation costs, accommodation expenses, and food cost from traditional field trips. They also subtract other logistic challenges which may come in traditional field trips.

• Safety:

Virtual Field Trips are much safer, as they eliminate the risk of travel and other related issues like environmental hazardous, or many more.

Flexibility and Replay-Ability:

Virtual field trips can be made differently for different curriculum objective. Users can pause; replay as many times they want. This allows user to explore deeply in learning.

• Engaging and Interactive Learning:

Virtual Field Trips enhance the experience through engaging and interactive learning, by using multi-media content and interactive feature.

• Broader Reach:

Virtual Field trips can be easily shared across the world through various platforms.

• Visit Site in Different Seasons:

Virtual field trips can allow user to visit place in different seasons, especially in the cases of nature adventure trips. This also subtract travel cost, and can visit in extreme weather without any hassle.

• Expands Areas:

Virtual field trips are helpful for trips to inaccessible areas, such as space, for everyone.

• Integrate Diverse Types of Data:

Virtual field trips can integrate diverse type of data in instantly available.

• Present Images from a Variety of Viewpoints:

Virtual field trips can present any image in a 360-degree viewpoint.

• Display Non-Visual Data:

Virtual field trips can display non-visual data like geochemistry, etc. with the help of technology like virtual reality (VR), augmented reality (AR), etc.

Challenges

Virtual field trips while offering immersive experiences, face some challenges

• Limited Hands-On Experience:

In virtual field trips, there is a lack of direct interaction with objects or environment, like touch, smell, taste, etc. This may limit your experience with sensory learning and critical observation skills.

• Technical Dependence:

Virtual field trips require reliable internet access (difficult in remote area) and technical proficiency to run smoothly, which can be barrier for some users.

• Potential of Distraction:

Users may be more prone to distractions while learning from home in the virtual environment.

• Quality Variation:

The quality of virtual field trips can vary depending on the platform.

• Teacher Preparation Time:

Creating engaging virtual field trips may require much more planning and technical support from teachers, or content creators.

Virtual Field Trips – Few Platforms



There are many platforms through which we can explore virtual field trips; here are some:

• Google Arts and Culture:

This platform offers 360-degree tours of museums, landmarks, and historical sites. This platform is available in both website and app, and allows free access to all users.

• National Geographic Virtual Expedition:

National Geographic offers educational resources and opportunities for explorations, including live events, free maps, videos, interactives, and other materials, all accessible without cost.

• NASA's Virtual Space Tours:

NASA's virtual space expeditions, including programs like the Virtual Guest Program and Virtual reality experiences, are free to access and participate in.

• YouTube and Live webcams:

This platform allows user to features real-time footage of wildlife, cities, underwater world, and many more... all free of cost.

Apart from these, there are many other platforms are available like Zoom, or Google Meet, etc. some are paid and some are unpaid.

Virtual Field Trips – A Peek into Future

Ever-revolving and improving tools and technology will help in arranging more enhanced Virtual Field Trips. This may include personalized experiences, allowing to feel locations before travelling, etc. This will help in market growth for tourism and education industries

Conclusion

Virtual field trips are revolutionizing education by making the world more accessible than ever, offering a unique way to discover, explore, and engage with the world from the comfort of home. Virtual field trips are not meant to replace traditional field trips entirely, but they offer a powerful and versatile tool for enhancing education and expanding learning opportunities. By embracing these technologies, we can empower learners of all ages to explore the world discover new possibilities, and cultivate lifelong learning, all from the comfort of their own homes or classrooms. The democratization of knowledge through virtual field trips is truly a revolution, providing access to the world's most incredible locations and experiences for everyone.





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