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Adapting to the Digital Age: Critical Technological Developments in Language Skills Education

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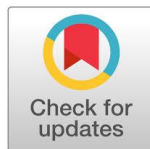
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Abstract: *Language, the cornerstone of human communication, bridges cultures, connects people, and fosters understanding. In today's interconnected world, language proficiency is a valuable skill that transcends borders and opens doors to new opportunities. With the rapid advancement of technology, the landscape of language education has undergone a profound transformation. In this article, we will delve into the pivotal role that technology plays in modern language education, exploring how it enhances learning experiences, broadens access, and prepares learners for the multilingual demands of the future. In the digital era, wider access to learning resources, technology-based learning applications, adaptive learning, and the use of technology in the classroom have opened up great opportunities for students to improve their language skills.*

Keywords: *Language skills, Technology, Education and Digital era*

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Introduction

Technologies have revolutionized and continue to revolutionize the way we live, work, play, relax and for that matter practically every aspect of our life. The system of education has also not remained untouched by the impact of technology. Impact of technology on education can be seen in two ways: first, in the form of development of various courses of studies about technological development and their application leading to both technical and liberal degrees and diplomain different areas of study and second, the application of technology and its allied tools in the process of instruction, learning and evaluation that even transcends all activities and functions of educational institutions.

The meanings of these terms are in a constant flux. The ever changing nature of technology also changes the configuration, structure and application of technology in education along with the other aspects of human endeavour. It is not surprising that in the evolutionary process the term technology in education at some point of time rechristened to be referred as technology of education and at some other point of time as educational technology.

The use of technology in various fields has been so successful and beneficial for teachers to reach some particular goals especially in education and for those who are learning a foreign language and literature. In every step of our lives, the significance of technology is seen and enjoyed in these days. Web- based technologies and powerful internet connections provide various new possibilities for the development of educational technology. English is the only language that has attracted many people around the world, for the most part due to the globalization. Students learn faster and easier than before because of the use of technology in educational institutions. It is quite clear that English has become a necessity today.

Research indicates that application of technology in education invariably increases students' learning, understanding, and achievement besides augmenting their motivation to learn. Technology facilitates collaborative learning and supports the development of critical thinking and problem-solving skills. Proper implementation of technology in the classroom gives students more control of their own learning and tends to move classrooms from teacher-dominated environments to ones that are more learner-centered.

According to Becker (2000), computers are regarded as an important instructional instrument in language classes in which teachers have convenient access, are sufficiently prepared, and have some freedom in the curriculum. Computer technology is regarded by a lot of teachers to be a significant part of providing a high -quality education. Technology has always been an important part of teaching and learning environment. It is an essential

part of the teachers' profession through which they can use it to facilitate learners' learning. When we talk about technology in teaching and learning, the word 'integration' is used. With technology being part of our everyday lives, it is time to rethink the idea of integrating technology into the curriculum and aim to embed technology into teaching to support the learning process. That is to say, technology becomes an integral part of the learning experience and a significant issue for teachers, from the beginning of preparing learning experiences through to teaching and learning process.

Developing learners' knowledge and skills pertinent to computer technology provides equity of opportunity, regardless of learners' background. Although learners have been born into a technologically rich world, they may not be skilful users of technology (Bennett, Maton & Kervin, 2008). In addition, just providing access to technology is not adequate. Meaningful development of technology -based knowledge is significant for all learners in order to maximize their learning (OECD, 2010). In this review paper, the researcher will review some of the significant issues pertinent to the use of technology in the learning and teaching of English language skills. These issues are as follows: definition of technology, the use of technology in the classroom, previous studies on using technologies in improving English language learning skills, and recommendations for using technologies.

Review of Literature

According to Susikaran (2013), basic changes have come in classes beside the teaching methods because chalk and talk teaching method is not sufficient to effectively teach English. Raihan and Lock (2012) state that with a well -planned classroom setting, learners learn how to learn efficiently. Technology -enhanced teaching environment is more effective than lecture -based class. Teachers should find methods of applying technology as a useful learning instrument for their learners although they have not learnt technology and are not able to use it like a computer expert.

Arifah (2014), the use of internet increases learners' motivation. The use of film in teaching helps learners to realize the topic with enthusiasm and develop their knowledge. Learners can learn meaningfully when technology is used in the process of learning through using computer and internet. When learners learn with technology, it assists them in developing their higher order thinking skills. It can be concluded that the true combination of multimedia and teaching methodology is very important to attract learners' attention towards English language learning.

Zarbazoia (2012), technology helps learners and teachers in studying the course materials owing to its fast access. Advancements in technology have a key role in preparing learners

to use what they learn in any subject matter to finding their place in the world labor -force. Technology facilitates learners' learning and serves as a real educational tool that allows learning to occur.

Sodouri (2013) asserted that one of the impacts of using technology in the language classes is the increase in cooperation among teachers and learners. When teachers allow learners to become assistants in the teaching process, this can increase learners' confidence. Learners are granted the chance to reinforce opinions and abilities already learnt. Learners can help teachers in technology integration because learners have had abundant time to master technology while teachers work on directing the instruction.

Ayas (2011) performed a research towards the effect of technology on learning. The findings obtained from this study revealed that learners increased their learning through incorporating technology into their classes. The researchers emphasized that technology made learners' learning interesting and interactive and increased their motivation, social interactions, and engagement.

Weller's (2007) definition of a VLE as 'a software system that combines several different tools that are used to systematically deliver content online and facilitate the learning experience around that content. Even the student who was not able to afford amount or without the formal qualification or from an excess age group are allowed by many open university lectures or anyone can attend seminars or assignments and provide with the tutorial, this also includes with face to face tutorials.

Yang (2011) performed a study to investigate whether Wiki technology would improve learners' writing skills. Learners were invited to join a Wiki page where they would write passages and then read and answer the passages of their fellow classmates. Learners indicated that the immediate feedback they received was a benefit of using this kind of technology.

In summary, In conclusion, challenges and concerns in technology-enhanced language learning, such as technical issues, motivation, the loss of authentic communication, teacher and learner preparedness, equity and access, and overreliance on technology, should be acknowledged and addressed to create effective and inclusive learning environments. Educators and institutions need to be mindful of these challenges and work to mitigate them to ensure that technology effectively supports language learning.

Research Gap

When considering a study on the critical technology evolution in language skills in education, identifying research gaps is essential to provide direction and justify the need for further research. While there is considerable research on the short-term effects of

technology on language skills, there is a lack of studies exploring the long-term impact. Many studies focus on individual technologies (e.g., mobile apps, online platforms, AI-based tools) without comparing their effectiveness. Research on how technology can be effectively integrated with traditional teaching methods to enhance language skills is limited. Most research focuses on general language proficiency or specific skills like vocabulary or grammar. There is a need for more comprehensive studies examining how technology impacts different language skills (listening, speaking, reading, writing) individually and collectively. In order to fill this gap in the literature, the present study was carried out, and the following research questions were addressed:

1. *What is the role of technology in Education*
2. *What is Evolution of Educational Technology in India*

Research Methodology

Qualitative methodology is adopted in the study, mainly by analyzing the theoretical basis of integrating modern technology into language skills in education, the shortcomings of the traditional teaching methods, and the advantages of using modern technology for language skills. The previous research published in journals and conference proceedings included in Web of Science and SCOPUS, regarding the use of modern technology for language skills in education, is used as a support.

Objectives:

- To critically analyze technological evolution in language skills in education.

Role and Application of Technology in Education

Technology can improve education to a great extent and it has now become a need for revolutionizing education for the better. Role of technology in education or teaching-learning can be viewed in so many ways.

- By involving projective technology and specially designed software laced with animation, video and interactive components. For example, PowerPoint software can enhance lectures by emphasizing key points and incorporating photos, graphs, and cartoons into presentations that would otherwise lack visual interest.
- Helping students visualize problems they will encounter in real life situation including in the world of work
- Optimizing the pace of content delivery
- Illustrating procedures, equipment, or situations that students may not have the chance to experience first-hand

- By reaching to students with different learning styles, including visual, auditory, and experiential learners
- Providing challenging and engaging learning experiences
- Providing instant feedback
- Providing variety of teaching and learning preferences
- Helping students gain experience with a process or skill
- Encouraging students to interact with teachers and students through, email, chatrooms etc.
- Building community
- Facilitating effective teamwork

Imperative Roles of Technology in Education

Here we have created this article to make you aware of the Important roles of technology in education for students as well as parents and teachers, have a glance –

- **Promotes Effective Educational system**

Undoubtedly, since technology is introduced in the classroom, it encourages the overall growth of students. Technology is a robust process to promote a healthy educational system worldwide. The Most Important roles of technology in education makes learning more accessible, exciting and enjoyable. The development of technological advancements in education leads to enhance knowledge and skills of students.

- **Technology Helps Students Learn Much And Better**

Any of us still wondering that how important is technology in Education? Thus, let me inform you that a survey has proved that digital learning technology helps most students improve their grades. Furthermore, through technology-based E-learning, students can learn more and better from different resources without depending on an institution or an instructor.

The most important thing is that technology helps learners more easily in their field. Such as, Students can convert or type text in handwritten style with an online [text to handwriting converter](#) tool. This tool allows them to share their educational notes in handwriting style. Which makes it more appealing and eye-catching and also plays an important role in the modern age.

- **Improvise better Communication and Collaboration**

We all know that the existence of technology has improved communication and collaboration to a better level. Likewise, Educational technology also boosted communication and collaboration between teachers and students and students/ parents, teachers/parents, and peers.

Teachers can interact with students to clear their doubts and make e-learning more effective. Technology enables one-on-one interaction in the classroom online.

- **Provide Teachers More Resources**

Educational technology provides teachers plenty of e-learning tools like Gamification, AR / VR, smartboards etc. Through Advanced modern technology of education, teachers can use various digital tools to magnify learning opportunities for students.

E-learning solution technologies enable teachers to improve their teaching skills. From technology, teachers can instruct well through video lessons, microlearning, attractive infographics etc. Moreover, teachers can engage the students by delivering online tests and different courses.

- **Learning At Own Pace**

The important roles of technology in education is to students as they can learn at any time and from anywhere. With the technology-based E-learning process, one can study in their comfort zone. Students can play, pause and re-watch complex topics using online educational applications until the concept is clear.

Discussions

Technology plays a vital role in education, especially in providing much wider access to learning resources in different languages. With the advent of the internet, students and learners can now very easily explore a wide range of learning resources, from books to articles, videos and lessons in different languages. This not only provides opportunities to deepen their understanding and language skills, but also promotes significant linguistic and cultural enrichment. In addition, there are various technology-based learning apps and platforms that are specifically focussed on improving language skills (Prayudi et al., 2021). These apps include exercises involving pronunciation, vocabulary, grammar and everyday communication, such as Duolingo, Memrise and Rosetta Stone, which allow students to hone their language skills independently. Not only does technology provide wider access, it also facilitates more personalised and interactive learning. In a technology-based learning environment, students can set their own learning pace, focus on the aspects that need the most attention, and get instant feedback (Dhawan, 2020). In addition, technology also enables collaborative and distance learning, which broadens the scope of global education and allows students to interact with peers from different countries.

Evolution of Educational Technology in India

The adoption of educational technology in India has evolved from basic audio-visual aids to advanced digital platforms and interactive tools. Initially, technology use was limited to

urban areas and elite institutions, but it has gradually expanded to rural and underprivileged sectors.

E-Learning Platforms

Platforms like BYJU'S, Vedantu, and Unacademy offer comprehensive online courses and live tutoring, making quality education accessible to students across India.

BYJU'S: Offers engaging video lessons and interactive quizzes, catering to diverse learning needs.

Vedantu: Provides live online classes and personalized learning experiences.

Unacademy: Features a vast repository of courses and live sessions by expert educators.

Interactive Whiteboards and Smart Classrooms

Interactive whiteboards and smart classroom solutions, such as those provided by Educomp and Tata ClassEdge, enhance the teaching experience through multimedia presentations and real-time interaction.

Educomp: Delivers digital content and interactive modules for various subjects.

Tata ClassEdge: Integrates technology with curriculum-based learning.

Mobile Learning

Mobile apps like Meritnation and Toppr provide on-the-go learning opportunities, enabling students to study anytime and anywhere.

Meritnation: Offers interactive tutorials, practice tests, and personalized learning paths.

Toppr: Provides comprehensive learning materials and adaptive practice sessions.

Digital Libraries and Resources

Digital libraries like the National Digital Library of India (NDLI) and ePathshala offer vast collections of academic resources accessible to students and educators.

NDLI: Provides access to a wide range of academic content, including books, research papers, and journals.

ePathshala: Offers educational resources developed by the National Council of Educational Research and Training (NCERT).

Limitations of Application of Technology in Education

- Application of technology has revolutionized the system of education today. Now there is a trend of increasing use of technology by both teachers and learners. Though the use of technology has become inevitable at the same time we must make ourselves aware about the benefits and limitations of the use of technology in education. A meta-analysis of various researches and the scholarly literature has identified the following benefits of technology in education.

- The Internet itself has unlocked a world of opportunity for students. Information and ideas that were previously out of reach are a click away. Students of all ages can connect, share, and learn on a global scale.
- Technology, especially the computer and Internet based technology is quite efficient in providing learning experiences in the form of drill and practice; help diagnose and solve problems, for accessing information and knowledge about various related topics.
- Technology makes the task of the students easy so far as their access to various educational materials is concerned. Instructors can post their course material or important information on a course website, which means students can study at a time and location they prefer and can obtain the study material very quickly.
- Technology helps in providing truly individualized learning experience in which students learn as individuals and not as a homogenous group. Individualized learning experience can make the students relate to the content, go forward and backward in the content, start at any point depending upon prior knowledge instead of always in a pre-determined fixed sequence or as per the group instruction.

Conclusion

Technology plays a crucial role in improving language skills in education. The role of technology in language education can be understood through several interrelated dimensions. First of all, technology provides wider and more flexible access to diverse learning resources. Through the internet and various technology-based learning platforms, students can explore a variety of learning resources, ranging from texts, videos, to interactive learning applications, all of which are available in multiple languages. While the benefits are clear, addressing the challenges related to access, infrastructure, and teacher training is essential for broader and more effective implementation. Future research should focus on long-term impacts, diverse populations, and integration strategies to maximize the benefits of technology in language education.

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