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**EDUCATING INDIVIDUALS WITH SPECIAL  
NEEDS TOWARDS INTEGRATED LIFE**  
*Realising the Goal of Educational Equity*



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## ENSURING EQUALITY AND EQUITABLE LEARNING - EXPLORING INCLUSIVE EDUCATION THROUGH ARTIFICIAL INTELLIGENCE APPLICATIONS

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### ABSTRACT

*Artificial intelligence (AI) and modern technologies are having a pervasive impact on current societies and communities. Given the potential of these new technologies to transform the way things are done, it is important to understand how they can be used to support inclusive education. This article analyzes the advantages of using AI and new technologies in different sociocultural contexts, and their impact on minority students. In terms of advantages, this article found that AI and new technologies (a) improved student performance, (b) encouraged student interest, and (c) promoted student engagement.*

**Keywords:** *artificial intelligence; new technologies; inclusive education*

### Introduction

Inclusive education is a key component of the development of a more equitable society. It is also an important component of education systems that aim to improve educational equity and quality for all students. UNICEF defined inclusive education as “a dynamic process that is constantly evolving according to the local culture and context, to celebrate diversity, promote participation and overcome barriers to learning and participation for all people”. Inclusive education applies to students from different groups such as learners with special needs and disabilities, girls and women, students at-risk, and ethnic minority students. However, Tomlinson noted that in inclusive education, the focus has been on learners with disabilities, and other groups have drawn less attention. Engelbrecht highlighted that there is a common perception that “inclusive education” is simply another name for “special education.”

Human society is complex and diverse. Nowadays, the growth of communication and transportation networks has multiplied human interactions and exchanges, and societies including schools have become diverse milieux. However, there is still the need to incorporate the diversity and inclusive approach into teaching training programs, in order to better prepare pre- and in-service teachers in technology integration among students from underrepresented groups.

Additionally, the pedagogical strategies and learning content of teaching and learning activities should be reevaluated to ensure that diverse learners develop capacities that are rooted in their cultural backgrounds. Effective teaching in a diverse school environment is a function of cognitive, affective, and behavior, which together support a responsive pedagogy. Moreover, educational proposals for inclusive education should consider the students’ contextual realities and emphasize the learners’ identities and cultural backgrounds.

### AI and New Technologies and Inclusive Education

Currently, AI and new technologies are having a profound impact on society and are becoming increasingly prevalent in education. AI and new technologies are defined as emerging technologies that are gaining prominence and changing the way things are done. They are novel and fast-growing including not only devices (e.g., smartphones and wearables), but also analytical procedures such as machine learning

and AI. These emerging technologies can potentially transform education by changing the learners' experiences both within and beyond classrooms, producing an impact on the learners' physical, social-emotional, and intellectual learning outcomes. The adoption of these technologies by education systems provides an opportunity to innovate and improve both the learning process and pedagogical strategies.

The literature on new technologies and inclusive education has highlighted that these emerging technologies have the potential to support the students' multisensory engagement, provide low-risk environments, scaffold the students' learning goals, create authentic environments that include disabled students, support collaborative learning, and reinforce positive social behavior.

Moreover, although Collins and Halverson highlighted that the new technologies provide more equitable opportunities in education, Bransford et al. noted that the positive effects of the technology do not occur automatically but are dependent on how the technology is used in the learning process. In other words, the effective use of technology depends on several factors such as student and teacher readiness, meaningful digital resources, the culturally appropriate design of the technology, and consideration of the learners' backgrounds and cultural contexts.

Additionally, it should be mentioned that there is an important difference between diversity and inclusiveness; diversity refers to the variation inside a group, while inclusiveness carries much more richness when it encourages participation and provides equal opportunities for all. For example, an educational institution might have achieved a certain degree of cultural diversity due to the arrival of students coming from different countries and cultures. However, inside the same educational institution, students from underrepresented populations might not be able to participate as full members.

Artificial intelligence (AI) is transforming the field of education by offering new possibilities for personalizing and enhancing learning experiences. AI can also help create more inclusive learning environments that cater to the diverse needs and preferences of learners, especially those who face barriers or challenges in traditional settings. In this article, we will explore some of the ways AI can foster more inclusive learning environments and how educators can leverage them effectively.

**Adaptive learning**-AI can enable adaptive learning, which is the process of adjusting the content, pace, and feedback of instruction to suit each learner's abilities, goals, and preferences. Adaptive learning systems use data and algorithms to monitor learners' progress, identify their strengths and weaknesses, and provide them with tailored support and guidance. This can help learners overcome learning gaps, master skills at their own pace, and achieve better outcomes. Adaptive learning can also benefit learners with special needs, such as those with disabilities, learning difficulties, or language barriers, by providing them with accessible and appropriate content and feedback.

**Collaborative learning**-AI can also facilitate collaborative learning, which is the process of learning with and from others through social interaction and cooperation. Collaborative learning can enhance learners' motivation, engagement, and social skills, as well as foster a sense of belonging and community. AI can support collaborative learning by creating virtual or augmented reality environments, where learners can interact with each other and with realistic simulations of real-world scenarios. AI can also provide learners with intelligent tutors, mentors, or peers, who can offer feedback, guidance, or encouragement. Additionally, AI can help learners form diverse and balanced groups, match them with suitable partners, and monitor their collaboration quality and outcomes.



**Creative learning-** AI can also inspire creative learning, which is the process of generating new and original ideas, products, or solutions through exploration, experimentation, and expression. Creative learning can stimulate learners' curiosity, imagination, and innovation, as well as develop their problem-solving and critical thinking skills. AI can enable creative learning by providing learners with tools and platforms to create and share their own digital artifacts, such as games, stories, or art. AI can also provide learners with feedback, suggestions, or challenges to enhance their creativity and learning. Furthermore, AI can help learners discover and connect with relevant and inspiring resources, mentors, or communities.

**Ethical learning-** AI can also promote ethical learning, which is the process of developing values, principles, and responsibilities that guide one's actions and decisions in relation to oneself, others, and the world. Ethical learning can foster learners' moral awareness, reasoning, and judgment, as well as cultivate their empathy, compassion, and respect. AI can encourage ethical learning by exposing learners to diverse perspectives, cultures, and contexts, and by challenging them to reflect on their own beliefs and actions. AI can also help learners understand the ethical implications and consequences of using AI itself, such as its potential benefits and risks, its fairness and bias, and its impact on society and the environment.

**Lifelong learning-** AI can also support lifelong learning, which is the process of continuously acquiring new knowledge, skills, and competencies throughout one's life span. Lifelong learning can enhance learners' personal and professional growth, as well as their adaptability and resilience in a changing world. AI can enable lifelong learning by providing learners with personalized and flexible learning pathways, which can help them identify their learning needs, goals, and opportunities, and guide them through relevant and engaging learning experiences. AI can also provide learners with recognition and validation of their learning achievements, such as certificates, badges, or portfolios, which can help them showcase their learning and advance their careers.

### **AI Tools for Inclusive classrooms**

Inclusive classrooms benefit from a variety of tools and technologies that cater to diverse learning needs. Here are some AI tools that can be useful for creating an inclusive learning environment

#### **Text-to-Speech (TTS) and Speech-to-Text (STT) Tools:**

- ❖ **TTS Tools:** Tools like Amazon Polly, Google Text-to-Speech, or Microsoft Azure Cognitive Services can convert written text into spoken words, helping students with reading difficulties or visual impairments.
- ❖ **STT Tools:** Google's Speech-to-Text, Microsoft Azure Speech, or IBM Watson Speech to Text can convert spoken language into written text, supporting students who may struggle with typing or have difficulty expressing themselves in writing.
- ❖ **Voice Recognition Software:** Dragon NaturallySpeaking: This tool is excellent for students who may have difficulty typing, allowing them to control computers and create content using their voice.
- ❖ **Captioning and Subtitling Services:** Otter.ai: Provides AI-powered transcription services, which can be helpful for creating captions for videos or providing written summaries of spoken content.

#### **Adaptive Learning Platforms:**

**DreamBox:** This platform uses AI to adapt to each student's learning style and pace, providing personalized learning experiences that cater to individual needs.

#### **Learning Management Systems (LMS) with Accessibility Features:**

LMS platforms like Canvas, Blackboard, or Moodle often include accessibility features and can integrate with third-party tools to ensure content is accessible to all students.

#### **Math Accessibility Tools:**

- ❖ EquatIO: A tool that makes math digital and accessible by allowing students to create, edit, and interact with mathematical expressions using natural math language.
- ❖ AI-Driven Reading and Writing Support: Grammarly: A writing assistant that uses AI to help students with grammar, spelling, and punctuation, providing support to those with language-related challenges.
- ❖ Visual and Hearing Impairment Support: Seeing AI (Microsoft): An app designed for the visually impaired that uses AI to narrate the world around them, recognizing objects, people, and more.
- ❖ Ava: An app that provides real-time captioning for deaf or hard-of-hearing students during class discussions.
- ❖ Virtual Reality (VR) and Augmented Reality (AR) for Immersive Learning: VR and AR applications can be adapted to create immersive learning experiences that cater to various learning styles and abilities.
- ❖ AI-Based Assessment and Feedback Tools: Platforms like Gradescope or Turnitin use AI to assist with grading and provide feedback, saving time for educators and offering detailed insights to students.

## Conclusion

AI and new technologies for inclusive education must consider the situation of every student that needs access to quality education. Such technologies can play an important role in supporting the inclusion of students identified by their diversities in an increasingly digitalized world. It is also important to note that technology does not exist in isolation but is immersed in society. Thus, technology and society mutually shape each other. In this article, we can find the types of AI and new technologies used for inclusive education, and their major advantages such as improving student performance and encouraging student interest.

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