The Role of Artificial Intelligence in Inclusive Education

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Abstract

Inclusion is a process that can practically infinitely increase the level of learning and participation for all students. In fact, inclusion occurs simultaneously with the increase in the degree of participation. An inclusive school is a school in motion [1]. At the level of intention, the Government has demonstrated that it is ready to accept children with special educational needs in schools in the community so that the children can return to their families, but at the level of legislative regulation, much remains to be done. The teachers do not know the methodology of working with these children, they do not know how to grade them, what kind of tests to apply at the end of the school year and if they do, is it legal? Many unanswered questions at the moment, but we hope that in the near future we will find answers to many of them. One of the methods of helping teachers and parents in the education and development of children would be Artificial Intelligence, which would allow working with each child individually and at their own pace.

Keywords: Inclusion, Artificial Intelligence,

1 Introduction

Poverty, migration, dispersal of families, disability are just some of the factors that determine the risk of social isolation of some categories of individuals, the principles of human cohesion and solidarity being strongly affected. The most obvious manifestation of this phenomenon is exclusion from education, with strong repercussions on social integration in general. That situation explains the special importance given

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to inclusive education as a phenomenon and process promoted in order to establish social equity. Promoting inclusion and teaching from an inclusive perspective requires a broad vision and specific skills that all teachers must possess, not just, as is mistakenly believed, those who directly assist a child with special educational needs. Inclusive education and education systems in general have evolved to the point where all teachers need to know that diversity is present in groups of children at all levels of education and that addressing the different requirements of children is what fundamentally marks the new trends in education. The application of Artificial Intelligence could come as a help in organizing the educational process. Creating platforms that would allow the process to be more convenient for each child depending on their requirements. Some children need a slower pace, others a faster tempo.

2 The benefits of artificial intelligence in education

Artificial Intelligence (AI), which is being talked about more and more, brings many significant benefits in the field of education, improving the way we learn and teach. AI can adapt the learning process to the individual needs of each student. By collecting and analyzing data about each student's performance, preferences, and learning style, AI can deliver personalized learning resources and materials. This personalization helps to effectively optimize learning and increase student academic success. AI systems can serve as virtual tutorials, providing interactive explanations and demonstrations to help students understand complex concepts. Can create tests and assessments that adjust to individual children's knowledge and abilities. It can reduce the administrative burdens of teachers and school staff by automating activities such as grading tests, checking plagiarism, scheduling classes, or managing student data, which allows the teachers to focus more on teaching. AI is able to find and eliminate mistakes in educational materials. AI contributes to the creation of engaging and interactive content, the creation of interactive and educational games. AI enables distance learning for students who live in more distant areas. Artificial

Intelligence brings a diverse set of benefits to education, from personalizing learning to improving accessibility and continuous innovation. However, it is essential to maintain a balance between the use of technology and the direct involvement of teachers and school staff to ensure a complete and successful educational experience for each student [2].

3 The challenges of using artificial intelligence in education

Apart from the benefits of AI in education, there are also challenges that need to be addressed. One of these challenges is related to the fact that AI can generate racial and gender stereotypes. There may also be issues related to the protection of student data and how this data is collected, stored, and used.

Other important downsides that can arise with the use of AI in education are:

1. **High costs:** Implementing AI in education can be expensive and require significant investment in infrastructure and equipment.

2. **Required skills:** Using AI in education may require advanced technical skills, which may be limited among teachers and educational administrators.

3. **Dependence on Technology:** Excessive dependence on technology can affect students' communication and social interaction skills, which can have negative consequences on their personal development.

4. **Perspective Limiting:** The use of AI can limit students' perspectives by presenting content and activities that reflect their prior interests and preferences without exposing them to new ideas or perspectives.

5. **Ethical responsibility:** The use of AI can raise important ethical questions regarding the accountability and transparency of decisions made by algorithms and how they may affect the lives of students [3].

4 Conclusion

Artificial intelligence was founded as an academic discipline in 1956, and since then it has gone through many transformations. It repre-

sents the intelligence exhibited by machines as distinct from the natural one exhibited by humans. However, it remains in constant development and applied in different fields. One of the very important areas is the knowledge base established since school. Every year the children's promotions differ and not always the classic teaching methods are successful. Children get bored more quickly, easily evade. Fun and educational methods must be found constantly so that the student does not lose interest in learning. At the same time, the number of children with special needs is growing rapidly in all regions. And the teachers are not prepared for inclusion.

One of the options is the preparation of new frameworks and platforms that would help both teachers and children to understand and use the knowledge received from school in the future. Artificial Intelligence could be a solution to help not only children but also teachers.

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