

Inclusive Intelligence: The Impact of AI on Education for All Learners Executive Summary

Artificial intelligence (AI) is on the brink of transforming education across all levels, from pre-kindergarten through 12th grade (PreK-12) and higher education. This new technology has the potential to deliver greater efficiency, inclusivity, and adaptability to the modern education system. However, AI will also introduce challenges, including new practices in curriculum development, instruction, and assessment. Furthermore, integrating AI will present new ethical issues to support all students' needs, including those with disabilities.

This report explores the multifaceted uses of AI in education and special education, underscoring its transformative capabilities while addressing the unique challenges of students with disabilities and other diverse learning needs. We hope this document will initiate conversations around AI in education. Each chapter discusses a different AI topic affecting education, special education, related services, and educational leadership, including the development of future educators, related service personnel, higher education faculty, and researchers.

The Center for Innovation, Design, and Digital Learning (CIDDL) plans to continue and update this report. Here are some primary takeaways from this report.

- AI in education has the potential to revolutionize teaching and learning through personalized education, administrative efficiency, and innovation, particularly benefiting (special) education programs across both K-12 and Higher Education. Key impacts include ethical issues, privacy, bias, and the readiness of students and faculty for AI integration.
- Effective AI implementation requires collaboration, planning, and open dialogue among stakeholders to address challenges and maximize benefits, emphasizing the need for community engagement, job security, and alignment with inclusive educational goals.
- Instructors can leverage AI to support curriculum development, lesson planning, personalized learning, and classroom management. Applying frameworks like Student, Environment, Task, and Technology (SETT) to ensure decisions are student-centered and focused on privacy and fairness. AI offers significant advantages for students with disabilities but requires careful management to avoid overreliance and resistance.
- AI's impact on special education and education research can be profound, offering new tools for personalized learning and requiring ongoing research to ensure effective and ethical application.
- Collaboration with parents and the community is vital to leverage AI to enhance educational experiences and outcomes.
- Policy and strategic collaboration are essential for integrating AI to support students with disabilities, addressing barriers such as accessibility, ethical considerations, and infrastructure costs. Partnerships with the AI industry can update educational practices and prepare students for future careers.
- Ethical considerations are paramount in leveraging AI in education, requiring measures to ensure fairness, confidentiality and prevention of algorithmic bias. A balanced approach is needed to integrate AI ethically, ensuring it complements rather than replaces human educators while preparing all for a technologically advanced future.