

Understanding Educator Roles: AI Support and Implications

Common Educator Roles

Potential Support from AI

Implications for Educators

Administrative Tasks

AI tools can power virtual assistants for educators to support scheduling, attendance tracking and analysis, personalized communication to parents, and basic record keeping.

The integration of AI tools in education can save educators valuable time on administrative tasks, enabling them to focus more on building relationships with students and directly supporting their learning needs.

Assessing Student Learning

AI tools can assist in grading certain assignments, provide instant feedback to students, and offer in-depth analytics on student and classroom performance to support personalized learning models.

Educators will need to be able to understand the purpose and operation of embedded learning tools for formative assessments and use student data to enable more targeted instruction and support while ensuring privacy.

Classroom Management

AI tools can be used to analyze student behavior patterns, including early signs of disengagement, and provide predictive insights and recommendations for intervention.

Teachers will need to consider ethical and privacy concerns related to student behavior monitoring, avoiding over-reliance on technology at the expense of personal interaction and professional judgment.

Communicating with Parents/Guardians

AI can be used to automate regular parent updates on student progress and offer insights into student learning.

Educators will need to skillfully manage AI tools while ensuring student data privacy to generate general updates and student progress reports to foster a more collaborative approach to education with parents.

Creating & Curating Instructional Materials

AI tools can be used to generate educational content, including video and audio assets, simulations, artwork, worksheets, accessibility and design thinking support, lesson plans, and project-based learning modules.

Teachers will need to learn how to curate AI-generated content and focus on critically reviewing, selecting, adapting, remixing, enhancing, and integrating materials to align with students' needs and interests as well as learning standards.

Data Analysis

AI tools can be used to ethically analyze extensive, longitudinal data sets and provide crucial insights into student performance, classroom dynamics, and learning trends and challenges.

Educators will need to develop data literacy skills to interpret these insights effectively and apply them to enhance their teaching strategies and interventions to increase student outcomes.

Differentiating Instruction

In collaboration with teacher awareness and guidance, AI tools can be used to analyze learning patterns and preferences and create recommended instructional strategies and resources that cater to the unique needs of each student.

Educators will need to become proficient in interpreting AI recommendations and integrating them into their teaching while also balancing AI insights with their professional judgment.

Instructional Delivery

AI tools can be used to create immersive learning experiences, including virtual field trips to historical events or interactive science experiments, as well as enable translation and differentiation for EL Learners.

Educators will need to continuously upskill and embrace a more dynamic and tech-savvy teaching approach, adjusting their instructional strategies based on real-time insights.

Professional Learning

AI can be used to offer personalized learning pathways and access to a global network of teaching resources tailored to educators' individual growth needs and interests - enabling them to expand and refine their expertise continuously.

Educators will need to engage in self-directed learning, utilizing reflection tools and resources augmented by AI to continuously refine and expand their teaching skills. They will also need to learn new strategies for integrating AI into their professional practices.

Special Education Support

AI can power personalized learning tools, assistive technologies, and individualized learning plans to support students with specialized learning needs identified through IEPs and 504 plans.

Educators will need to develop expertise in creating and implementing individualized learning plans and strategies for special education students based upon the guidance of AI systems.

Tutoring & Support

AI tools can be used to offer 24/7 real-time instructional support, remedial assistance, and answers to students' academic questions.

Educators will need to engage with AI tutoring systems to interpret insights, ensuring a balance between technology-driven interventions and human guidance.