AI tools for educators can help enhance personalized learning in K-12
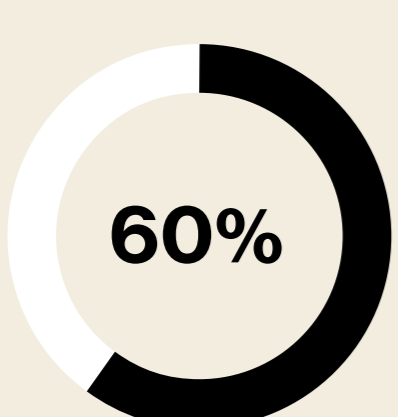

As artificial intelligence (AI) continues to make its way into the classroom, how will AI for educators offer more personalized and collaborative learning?
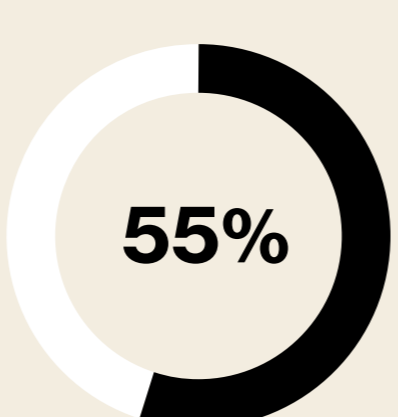
The answer is amplification. AI tools for education can help amplify a teacher's talents and encourage collaborative learning. The power of machine learning combined with a teacher's unique abilities makes personalized learning even more personalized. Learn more about the latest AI tools for educators and the benefits of AI in education.
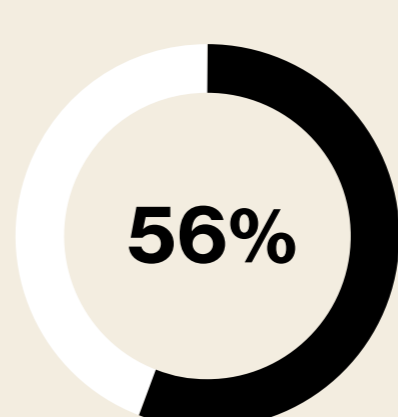
The rise of AI in education

From adaptive learning tools to automated grading, the use of AI in education is reshaping the classroom experience:

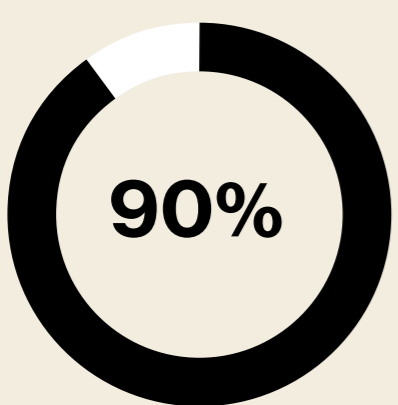**60%** — 60% of teachers use AI to improve and streamline their daily teaching responsibilities.

55% — 55% of teachers believe AI has had a positive effect on the teaching and learning process.
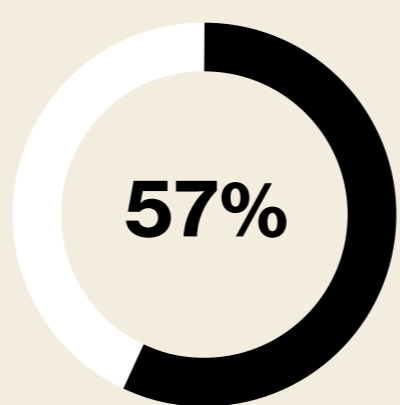
56% — 56% of teachers anticipate AI use to rise.

AI for personalized learning

As the student-to-teacher ratio rises, AI can help teachers personalize learning for each student. Machine learning algorithms analyze student data—including progress, interests and learning style—to generate tailored lessons, assignments and reviews. By using AI for educators, teachers can benefit:

90% — 90% of teachers believe AI has the potential to make education more accessible for students who need personalized learning methods.[1]

57% — 57% of teachers use AI for customized individual student experiences.[2]

Ways to use AI for personalized learning

- Offload daily tasks to allow teachers to focus more on mentoring and creativity.
- Customize lesson plans for each student's learning level and style.
- Analyze student data to identify knowledge gaps and inform intervention.
- Employ natural language processing to assess student writing and offer tailored feedback.

AI for collaborative learning

Tutoring has long produced promising results in addressing student learning gaps. A one-on-one tutor can provide the personalized, targeted instruction students need to succeed:

- High-dosage tutoring—three or more sessions per week—may help improve the learning process over low-dosage tutoring across grade levels
- Intelligent tutors can increase student test scores by 16 to 40%[3]
- AI can help eliminate the guesswork involved in forming potentially optimal student groups for projects and activities by analyzing data on student work and performance.
- AI chatbots could serve as a virtual coach or teachers aide in meaningfully guiding or moderating student group conversations

Ways to use AI for collaborative learning

- Intelligent tutoring systems (ITS) platforms make automated, personalized learning practical at scale while capturing valuable data for educators on effective content sequencing and best practices for differentiated support
- AI chatbots or virtual tutors can provide instant feedback, answer questions and offer personalized assistance
- AI assistants can serve as translators for students who speak English as their second language
- AI-powered group projects
- Virtual collaboration spaces

Verizon helps power AI in education

With high-speed networks and reliable connectivity, Verizon can help schools deliver adaptive learning at scale with AI systems. Learn more about how Verizon can help enable personalized and collaborative learning.

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