
Harnessing the Future: AI in Education and Learning

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Why AI in Education?

- Enhances personalized learning
- Facilitates real-time feedback
- Supports content creation
- Prepares students for an AI-driven workforce



AI Tools in the Classroom

- AI-based tutoring systems (ChatGPT, Scribe)
- Automated grading and feedback tools
- AI-enhanced learning management systems
- Adaptive learning platforms

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Benefits of AI Integration

- Personalized and adaptive learning experiences
- Improved efficiency for educators
- Increased student engagement
- 24/7 access to learning resources
- That assistant you always wanted: from I.A. to AI

Use Cases and Benefits of AI in the Education Industry



Ethical Considerations

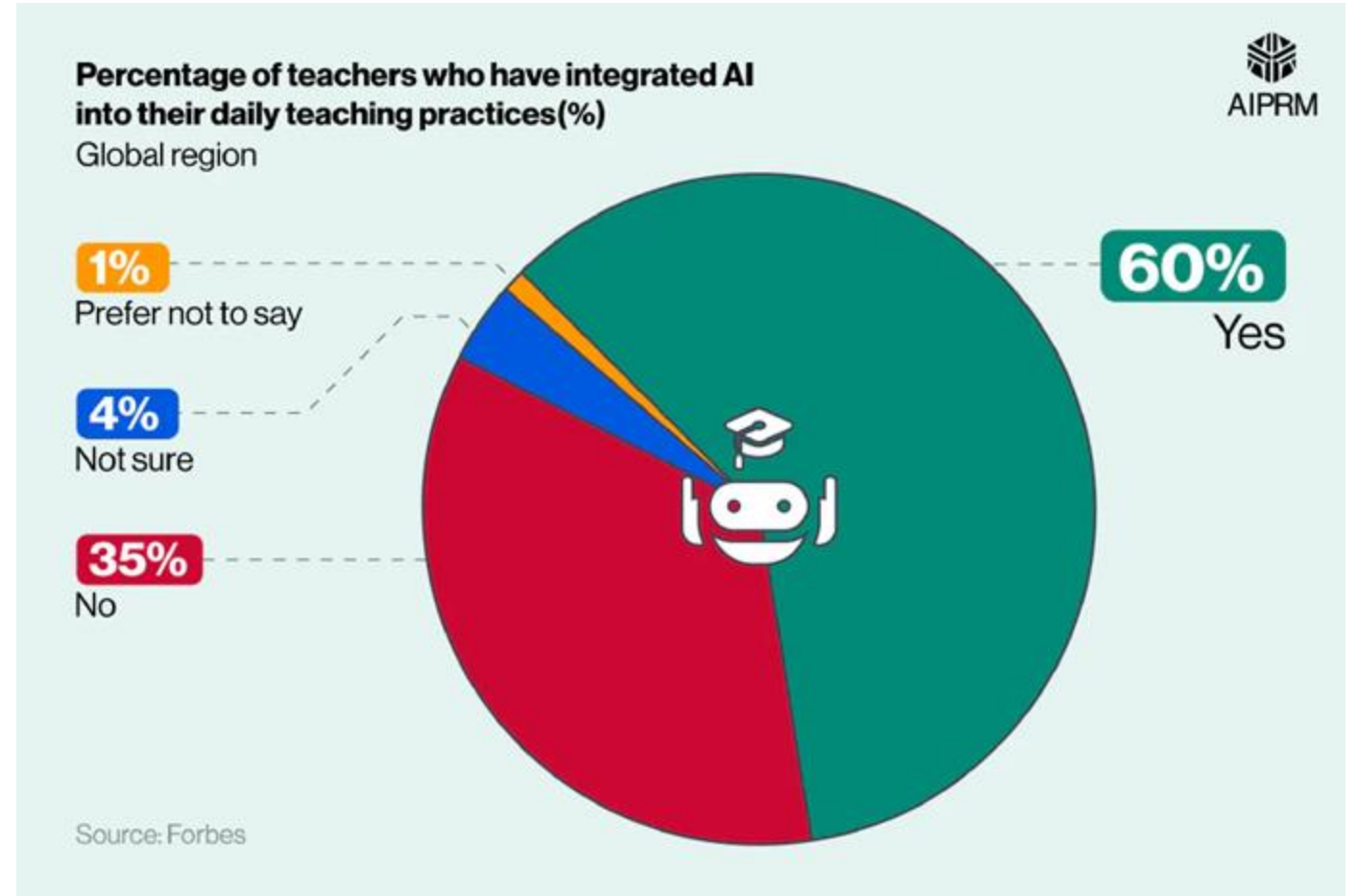
- Academic integrity and plagiarism concerns
- Bias in AI-generated content
- Data privacy and security risks
- Balancing AI use with critical thinking skills
- Mar. 13, 2025: using artificial intelligence to create explicit videos

Teacher accused of creating AI-generated child pornography of students



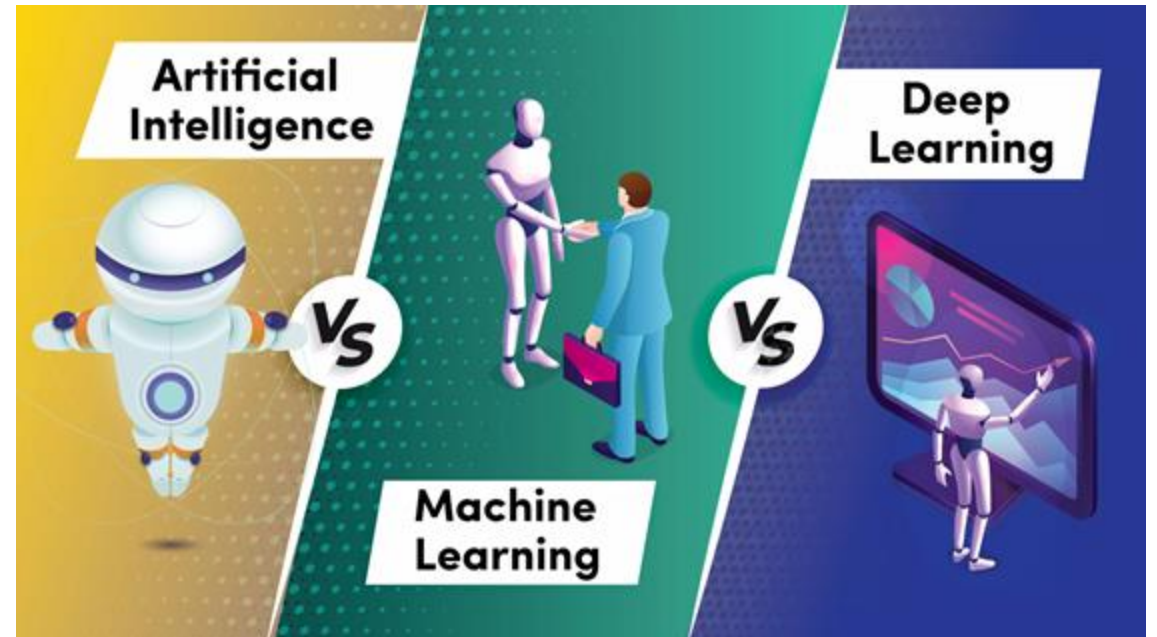
Best Practices for AI in Education

- AI-powered language learning applications
- Universities using AI for student advising
- AI-generated feedback in writing courses
- Train yourselves to use it well.



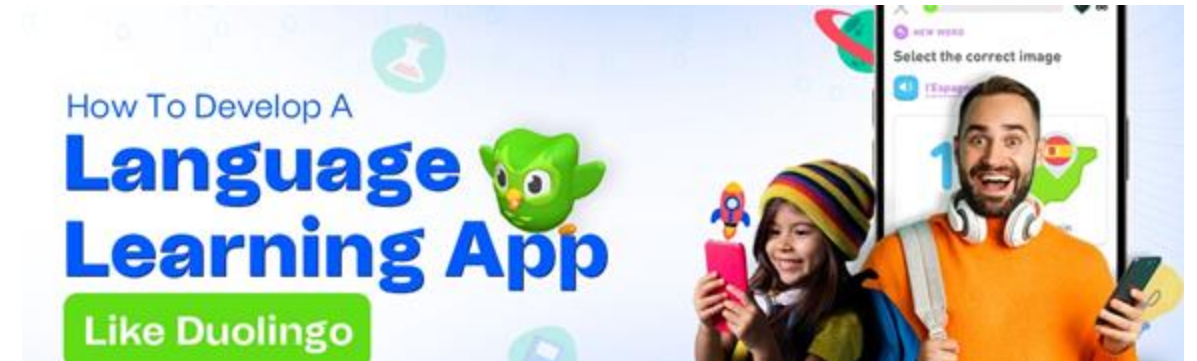
Challenges and Limitations

- **Over-reliance on AI** – Students may use AI without fully engaging in learning.
- **Faculty training** – Instructors need support in understanding AI's capabilities and limitations.
- **Ensuring accessibility** – AI tools must be inclusive for all students.
- **Infrastructure and cost** – Schools must assess the feasibility of AI investments.
- **Environmental cost** – high energy consumption, requiring vast amounts of computational power, with significant carbon emissions and increased demand for data center cooling and electricity



Case Studies – AI in Action

- **AI-powered language learning** – Apps like Duolingo personalize lessons using AI.
- **Universities using AI for student advising** – AI chatbots assist students in course selection.
- **AI-generated feedback in writing courses** – Some institutions use AI to provide automated essay feedback.
- **AI-Powered Language Tutoring** – Duolingo & Babbel
- **AI for Real-Time Translation & Speech Recognition** – Google Translate & ChatGPT



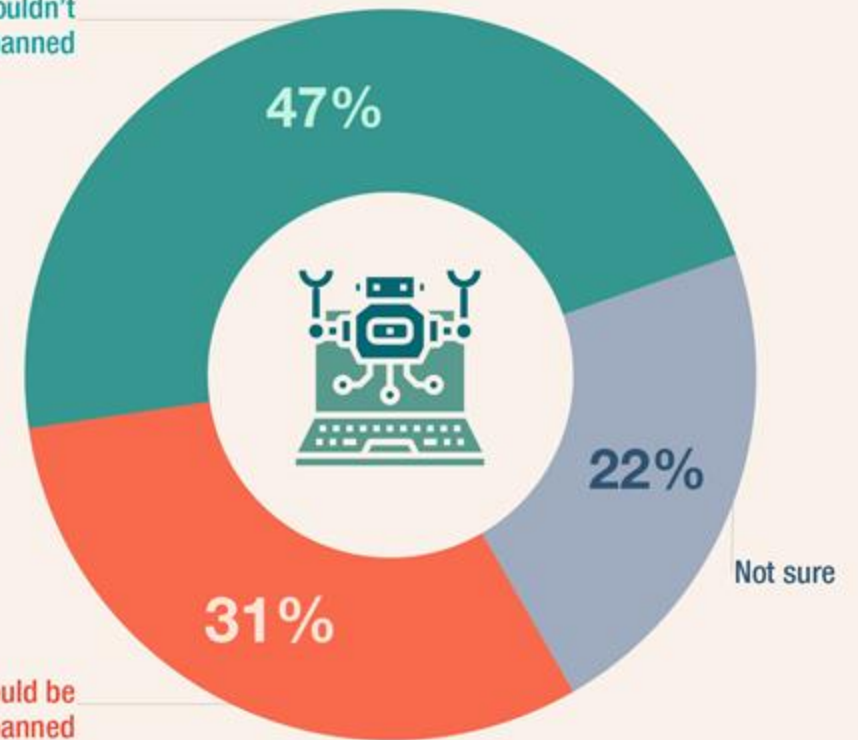
Future of AI in Education

- Growth of AI-assisted learning environments
- AI-driven assessment and feedback
- Continuous evolution of AI's role in education

To ban or not to ban **AI**, that is the question

Q: Do you think the use of artificial intelligence (including ChatGPT) should be banned in schools?

No, it shouldn't
be banned



Source: Ipsos Global Education Monitor 2023. 8,071 parents with kids in school across 29 countries polled between June 23 – July 7, 2023.



Conclusion & Discussion

- AI is reshaping education, but ethical and strategic integration is key.
- How do you see AI shaping your classroom?
- Q&A
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