

How to Use Advance Technologies for Learning?

PRUDMET Workshop no. 3



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Introduction to advance technologies in education



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Advance technologies in education

Chatbots	•Stimulating conversations •Increasing learners' interest and engagement
Expert systems	•Pedagogical planning •LMS uses •Improving quality of interactions •Leveraging the LMS
Intelligent tutors / agents	•Customized and timely materials, guidance, and feedback •Customized learning experience based on needs, preferences, and prior knowledge
Machine learning	•Analyzing large scale student data •Predictive models •Preventive and adaptive interventions
Personalized learning systems / environments	•Facilitating interactions •Improving e-learning •Customized learning materials and resources for tailored learning
Visualizations and virtual learning environments	•Collaborative learning, engagement, and visual feedback •Visualization of information •Immersive learning environments

Table 1. Proven and potential educational benefits of AI technologies.

Source: Zhang, K., & Aslan, A. B. (2021). AI technologies for education: Recent research & future directions. *Computers and Education: Artificial Intelligence*, 2, 100025.



Introduction to advance technologies in Education (1)

List* of AI technologies in Education:

1. Grading software
2. Admin tasks
3. Voice assistants
4. Personalized learning
5. Smart content
6. Intelligent tutoring
7. Virtual learning (VR) environment
8. Universal access to education

*Source: <https://www.westagilelabs.com>



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Landscape of AI technologies

Landscape of AI technologies



Image 1. Landscape of AI technologies. *Source:* <https://drphilippahardman.substack.com/p/the-generative-ai-landscape-for-learning>



#1 Exercise [1]

Please open the link (<https://labs.openai.com>) and type a phrase “AI in education and look at diverse results”



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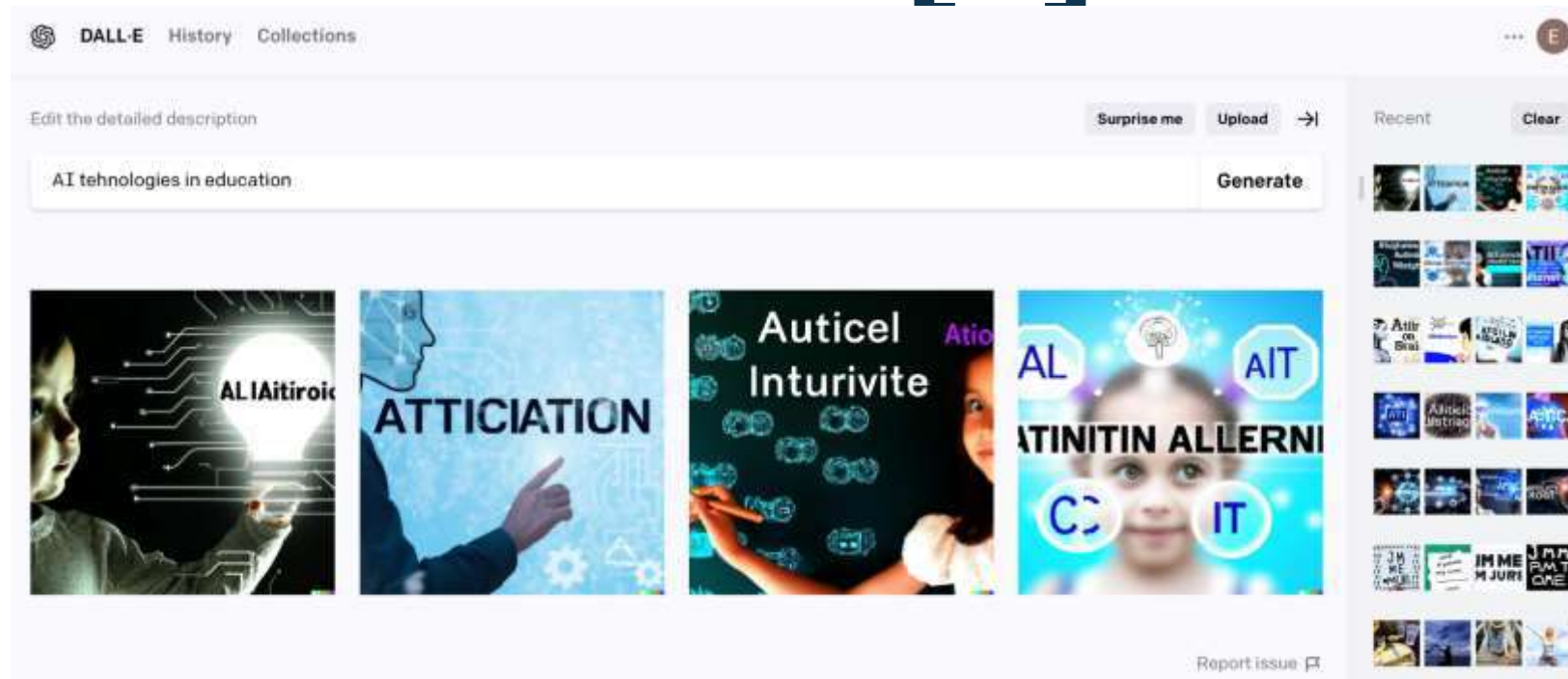


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#1 Exercise [2]



Source: <https://labs.openai.com>

Thank you for your participation

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