Education in the Age of Gen AI

Practical recommendations for educators and students based on insights from the scientific literature on the impact of Generative AI (GenAI) on higher education (qrcode below). These practices promote the future-proofing of education for the age of AI.

5 **Metacognitive abilities**

Metacognition, the ability to "think about our own thinking" and the ability to regulate it by monitoring, planning, and controlling how wee think, will be relevant to better prompt and steer GenAI systems in the future.
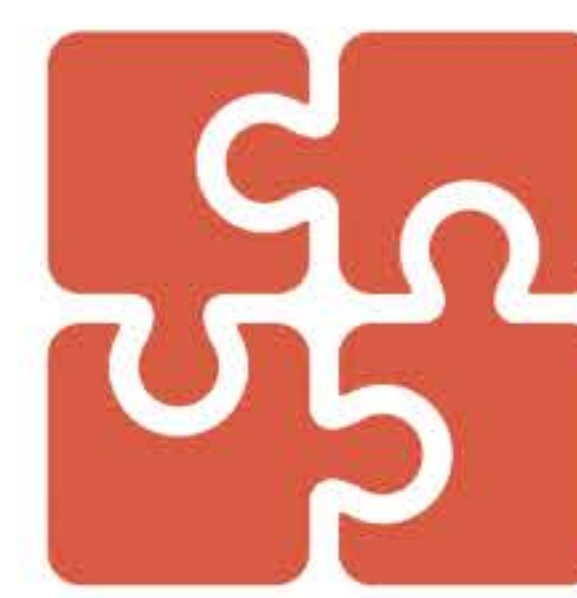
6 **Triangulate Diverse Assessments**

Use diverse assessment formats like live presentations, peer assessments, and project-based assignments to assess skills, with and without AI tools.

1 **AI Literacy**

Educate students on AI's capabilities, limitations, biases, and ethical implications, empowering them to use AI responsibly. This is especially relevant for GenAI.

2 **Higher-Order Thinking**

Focus on developing students' critical thinking, problem-solving, creativity, ethical reasoning, and adaptability skills.
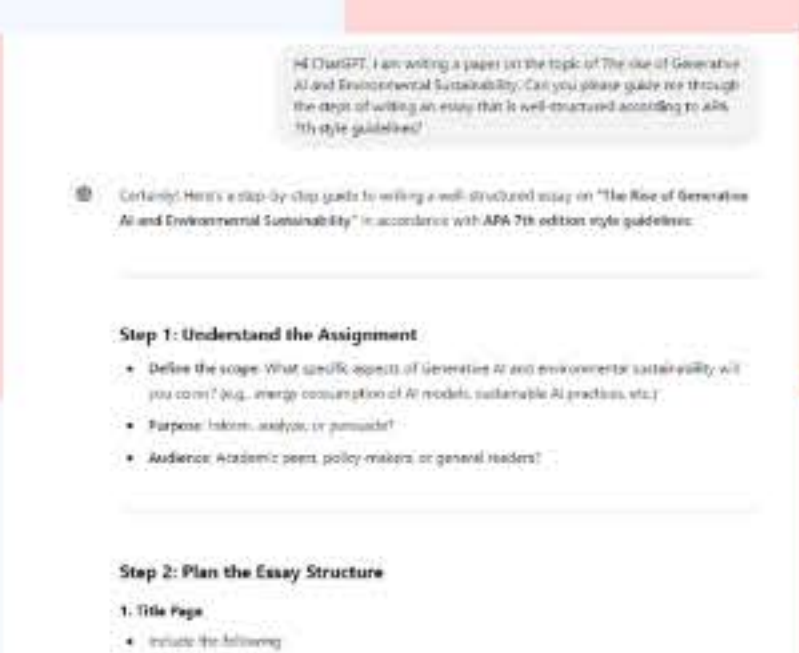
3 **Assess the Learning Process**

Shift assessment practices from product-focused to process-oriented. focus on evaluating student reasoning and their metacognition skills.

4 **Prompt Analytics**

Analyze student interactions with GenAI to gain insights into their learning process, degree of reliance on AI, and AI literacy skills.

7 **Team Projects and Collaboration Skills**

Engage students in real-world projects requiring critical thinking, problem-solving, and collaboration. AI can be used for research, brainstorming, or drafting.

8 **Open-Ended Problem-Based Projects**

Present complex, open-ended problems that require research, analysis, and creative solutions. GenAI can be used to explore perspectives or generate ideas.

9 **Improving GenAI output**

Leverage GenAI to **facilitate (but not replace)** idea generation and critical discussion. Generate content with AI for students to individually or collaboratively evaluate and refine.

10 **Learning to work with GenAI**

Integrate GenAI tools into programming courses for tasks like code explanation, and assistance with debugging. Shift focus to higher-order problem-solving.

GenAI in Classrooms

Learning how to use GenAI thoughtfully in the classroom creates powerful opportunities: educators can deliver more personalized instruction, while students can develop the digital fluency that will be crucial for their future careers.

Full report: