



Leveraging Generative AI for Instructional & Student Success

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“The release of ChatGPT and the subsequent emergence of dozens of other generative AI tools marks 2023 as *the dawn of the generative AI era*. Educators have had varied reactions to this disruptive development, while vendors and textbook partners like Grammarly, Turnitin, and Pearson have been quick to address both the challenges and opportunities it presents.

Generative AI offers vast opportunities for instructional and student success.

- It can support **teachers** by generating content, facilitating personalized learning, providing intelligent tutoring, assisting with differentiated instruction, assessing student work, and offering effective feedback. Additionally, it can analyze large volumes of data to uncover valuable insights and predictions, enabling early detection of patterns, trends, and performance indicators that contribute to student success.

- For **students**, generative AI can empower them to take charge of their own success through critical thinking, personalization, collaboration, efficiency, ideation, and innovation. It also prepares them for future careers that will demand proficiency in AI tools.

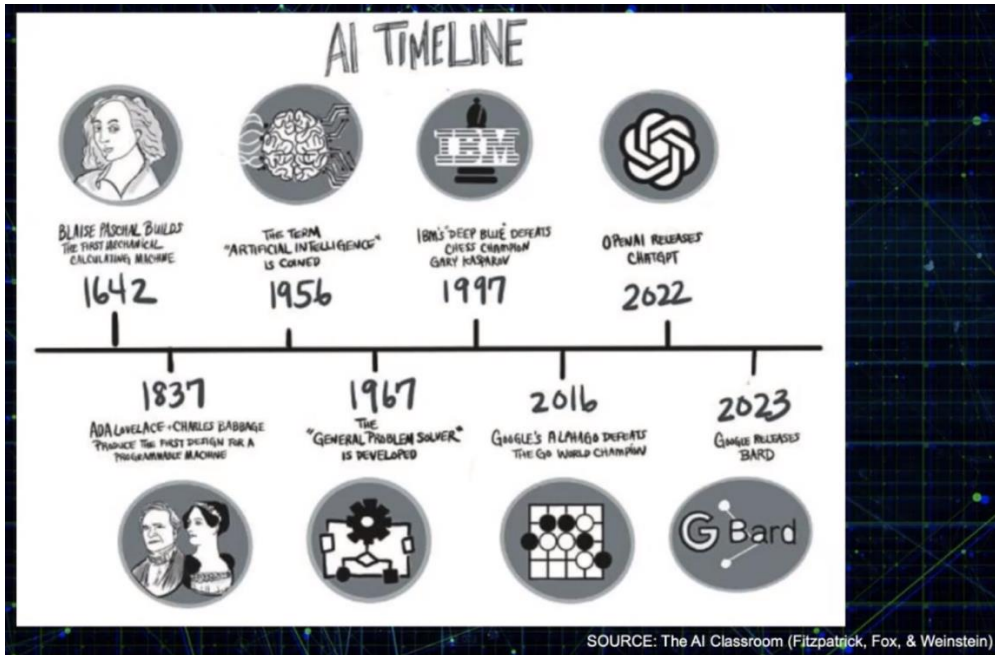
Swisher and Snyder believe educators can move from tolerating or restricting the use of generative AI by students to actually embracing it to enhance the student learning experience as well as drive learning outcomes.”

SIDLIT 2023, Notes from the session:

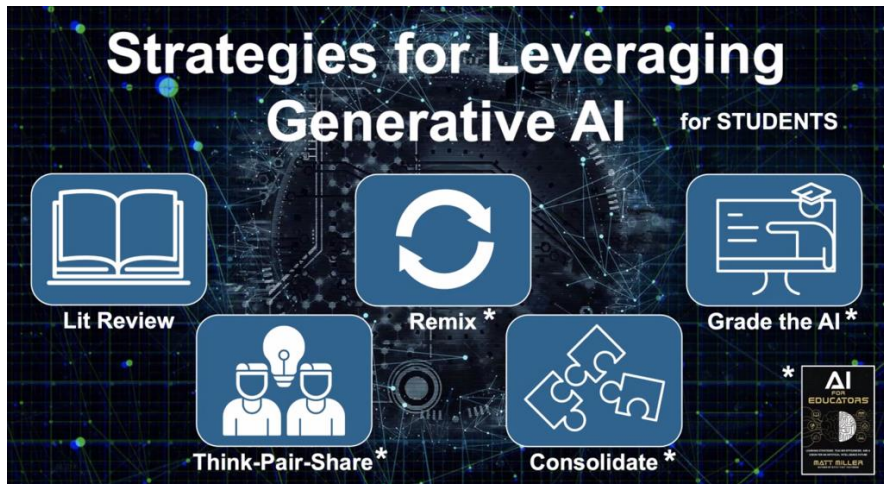
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- Chat interface—**g p t**
 - **generative** (model creates output from learned data)
 - **pre-trained** to look at patterns & make meaning
 - **transformer** (input to output)

- systems making decisions without humans; AI artificial intelligence
- machine learning with language learning (not new, around since 1495—DaVinci)



- Natural language processing—why everyone is now talking about (conversational, no coding needed)
- Students will be working in a world using AI; won't stop cheating. Switching to paper/pencil is not the answer, accessibility concerns, not authentic to real world. AI will be normal in the future. Employers will expect employees to know how to use it.
- HOW DOES IT "THINK": *predicative analytics*



Teachers:

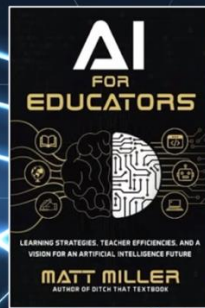
- Put your rubric in & ask the AI to grade student essays.
- Ask it to answer & write; and ask again and again and again. Then have students put all essays together & learn about revision, process work.
- Create study questions (students).
- Combine this learning with faculty mentor conversations. Offers real time input; copy & paste teacher feedback
 - feedback on the Ts feedback; one teacher had her student course feedback, and a colleague—but Chat GPT gave her real time feedback when teaching a doctoral course for the first time

Students:

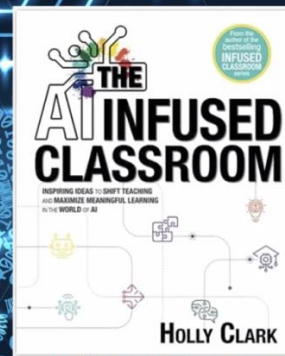
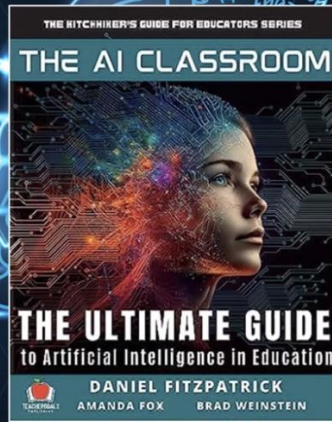
- It could create the annotated bibliography for students.
 - Put 5th grader's story in AI GPT and asked it to change it to a poem (create interest in new literary form). Ask Ss to read & grade the AI's essay, poem, etc.
 - THINK Pair (with AI Chat GPT) & Share with real classmates.
- Teacher models good behavior; have students cite AI Chat GPT if used.
 - Be present. It's not going away.

US Law—if it's created by machine, it's not copyrighted (AI is not creating anything new; it learned from others' material).

Recommended Resources



AI for Educators



Recommended Read: [AI for Educators by Matt Miller](#)