

Comprehensive Table of GenAI Tools for Education

Category	Action	Tools	Strengths	Weaknesses
Idea Generation	Brainstorming, overcoming writer's block	ChatGPT, Claude, Perplexity, Gemini	Highly creative and flexible responses, great for ideation.	May generate irrelevant ideas or require refinement.
Research Assistance	Searching for online or scholarly sources	Perplexity, Consensus, Research Rabbit, SciSpace, Scite, Semantic Scholar, Atlas.ai	Provides curated results and summarizes academic resources.	May overlook niche sources or prioritize general information.
Writing Assistance	Correcting grammar, paraphrasing, rephrasing, or adjusting tone/register	ChatGPT, QuillBot, Grammarly	Exceptional language fluency, grammar accuracy, and tone adjustment.	Limited understanding of specialized terminology.
Visual Content Creation	Designing graphics, diagrams, and infographics	Canva, Leonardo.ai, Adobe Firefly, MidJourney	Intuitive tools for creating visually appealing educational resources.	Advanced features may require paid versions; high reliance on prompts for specific outputs.
Coding Assistance	Generating or debugging code	GitHub Copilot, ChatGPT, Llama	Excellent at automating code snippets and debugging logic.	Struggles with highly complex algorithms or specific frameworks.
Language Translation	Translating texts to/from various languages	DeepL, Google Translate	Accurate and context-sensitive translations for academic purposes.	Struggles with idiomatic expressions or highly technical jargon.
Feedback Generation	Providing feedback on ideas or student work	ChatGPT, Claude	Can offer constructive suggestions to refine work.	May lack depth in specialized fields.
Data Analysis	Analyzing quantitative/qualitative data	ChatGPT, GitHub Copilot, Atlas.ai	Efficient at identifying patterns and summarizing findings.	Limited statistical accuracy compared to dedicated software.
Transcript on Tools	Converting spoken content into text	Whisper AI, Otter.ai	High accuracy for converting lectures and discussions into text.	Accuracy depends on audio quality and accent variations.

Visualization Tools	Creating charts, mind maps, or tables	Canva, Biorender	Enables the creation of professional-quality educational visuals.	Some tools have steep learning curves for beginners.
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