Universitat Oberta de Catalunya

Useful tools for teaching staff (generative AI tools)

Writing and searching assistants

Chat GPT · Perplexity AI · Tutor AI · Google Bard AI · Bing Chat

- Summarizing information and identifying the most relevant parts.
- Planning lessons.
- Searching for information on specific topics for one course.
- Searching for information for academic research.
- Answering questions about topics relating to one field of teaching.
- Getting suggestions regarding online educational resources, such as videos, articles and tutorials.
- Getting ideas for projects and activities to be carried out by students.
- Overcoming writer's block by getting suggestions for a first draft.
- Getting suggestions for projects and activities that may be educational and of interest to students.
- Reducing the work involved in repetitive tasks, such as updating annual tables
- or sorting information.

Interrogation and summary of documents, articles and books

Explain paper · Humata · Chat PDF · Chat DOC · Talk to Books

- Understanding complex ideas in texts.
- Analysing texts efficiently.
- Identifying what is most relevant quickly.
- Discovering new ideas.
- Answering questions about the content.
- Improving the learning experience for students (if used in class).
- Summarizing the key ideas contained in complex academic papers in a way that is easy to understand.

Presentation generation

Tome · Slides AI · GPT for slides · MotionIt AI · Magic Slides

- Converting text into slides.
- Producing slides based on searches about a particular topic.
- Introducing images.
- Creating slides that provide interesting narratives.
- Creating presentations for conferences.

Audio transcription

Happy Scribe · Dictation.io · Whisper

- Converting audio input into written text automatically.
- Saving time and effort transcribing talks, presentations, interviews and podcasts.
- Providing students with transcripts or written copies of teaching content.
- Taking minutes of meetings or keeping record of conversations with students or other teachers.
- Recording feedback about a test or academic paper.
- Transcribing interviews or audio recordings relating to academic research.

YouTube videos transcription

Happy Scribe · Glasp

- Obtaining transcripts of audiovisual content.
- Summarizing the content of video transcripts.
- Obtaining transcripts of videos for translation.
- Providing students with written copies of video content.
- Using transcripts and summaries to prepare lessons, presentations or educational resources.
- Catering to people with hearing impairments or people who do not understand the language spoken in the video.

Creating images from text

DALL·E · Stable Diffusion · Midjourney · Fotor · Craiyon · Adobe Firefly

- Providing illustrations for presentations or examples.
- Creating custom images for inclusion in teaching materials.
- Making lessons more visual and engaging for students.
- Generating images to inspire students or to be used by them as the basis of their own projects in art- or design-related courses.

Creating videos from text

Synthesia · Runway · AIStudios · DeepBrain AI

- Creating custom presentations for the classroom.
- Providing inspiration for ideas.
- Illustrating presentations or examples to be given in class.
- Creating teaching materials.
- Making lessons more visual and engaging for students.

Tools for writing code

ChatGPT · GitHub Copilot · Tabnine · Ghostwriter · SourceAI

- Generating code within conventional and cloud development environments.
- Automatic code completion.
- Speeding up code writing.
- Revising and simplifying code, and finding and fixing bugs.
- Generating code in any programming language based on descriptions.
- Creating and running tests to check the proper operation of a piece of code.
- Generating documents.
- Explaining how a piece of code works.

Testing environments

Replicate · HuggingFace

- Building, training and using cutting-edge models powered by open source machine learning.
- Running and testing different machine learning models.

Plagiarism detectors

Smodin · OpenAI API Key

- Identifying any content in students' work that has been copied from other sources without proper acknowledgement.
- Encouraging students to meet academic standards and discouraging them from plagiarizing other people's work (by informing them that detectors may be used).
- Educating students about the importance of academic integrity and the appropriate use of sources.
- Identifying any unreliable or inappropriate sources in students' work.
- Identifying whether a piece of text has been rewritten or paraphrased in an attempt to conceal plagiarism (in the case of some advanced detectors).

The outlook for AI-supported tools is rapidly changing, with some becoming obsolete after initially earning good positioning. The recommendations provided here may vary. For almost all the tools mentioned, there is a free version or a trial period.

DISCLAIMER: The use of ChatGPT and other generative AI is not recommended by European and local data protection authorities until the legal context for this technology has been clarified. If you do make use of them, we recommend following these guidelines: https://blogs.uoc.edu/elearning-innovation-center/the-legal-situation-regarding-the-use-of-generative-ai/

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