

LEARNING WITH AI – TAKE AWAYS

Audencia

never stop daring





PART I : DISCOVERY AND SHARING OF EXPERIENCES

HOW CAN AI HELP ME LEARN ?

never stop daring

SOME THINGS TO CONSIDER

Check your understanding

- Build multiple choice questions with your class note
- Ask for short answer questions at different levels
- Have the AI ask you questions at different levels of mastery (understand, apply, evaluate, create)

Build learning tools

- Build flash cards to import into phone apps for studying
- Build mnemonic devices to remember concepts
- Ask AI to build a visual mindmap or representation of the concepts you are studying

Deepen your understanding

- Ask the AI to play the role of a novice and then explain a concept to it. Ask it to question you.
- Ask for alternative explanations of a concept to learn from a different perspective
- Ask for source documents and links to resources to learn in different ways
- Ask for ways to learn a subject based on your learning preferences (VARK)
- Ask AI to explain your notes as if you were a novice, using simple real world examples
- Ask for practical examples of concepts

CONVERGENT AND DIVERGENT THINKING

What you did in activity 1 shows that AI cannot replace a human brain

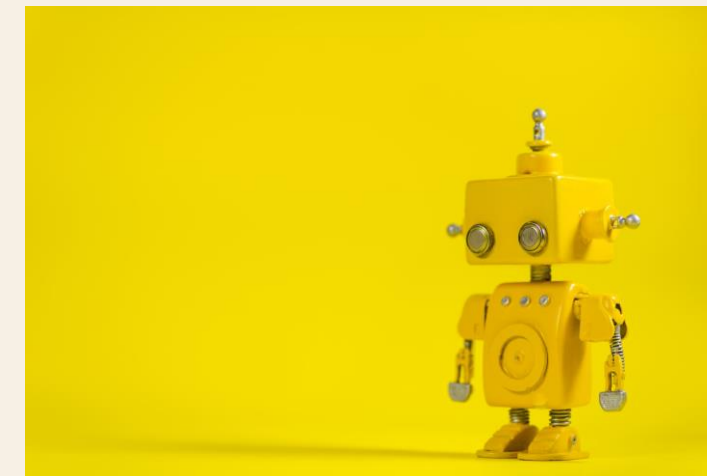
What you did with your team :

- Creative/divergent thinking to think about what AI can bring
- Creative thinking when prompting AI to complete your findings
- Show critical thinking skills to assess what AI provided you back
- Have a convergent thinking process afterwards to align on what you finally keep



What AI did :

- AI did not create anything
- AI simply looked for information it has been fed/trained with
- AI replies to a request : if the request is not cleverly built, AI fails to provide something
- AI provides one biased reply



PART II : BUILD EFFECTIVE AND CUSTOMIZED LEARNING TOOLS FOR A GIVEN SUBJECT

never stop daring



EXAMPLES OF PROMPTS ON THE 7 LEARNING TECHNIQUES

[HTTP://TINYURL.COM/AI-AUDENCIA](http://tinyurl.com/ai-audencia)

never stop daring

ASSISTED ACTIVE RECALL WITH AI



Here is a text on 7 practical learning techniques. Please create 10 short answer questions to test my understanding of the concepts. Then propose 10 short answer questions that test my ability to apply the concepts and understand at a higher order level....

Short answer questions for applying the concepts and higher-order thinking:

1. Design a spaced repetition schedule for studying a specific topic.
2. Create a study plan that incorporates active recall practices like self-testing or practice questions.
3. Identify a complex concept you're learning and explain it to someone with no prior knowledge, applying the Feynman Technique.

4. Choose two related but distinct subjects and design an interleaving study



Short answer questions for understanding the concepts:

1. Describe the Forgetting Curve and its implications for learning.
2. What is spaced repetition, and how does it address the Forgetting Curve?
3. What are the benefits of active recall compared to passive learning?
4. What is a desirable difficulty, and how does it support long-term learning?
5. What are some ways to implement elaboration in your studies?

ACTIVE RECALL WITH FLASHCARDS



can you create 10 flasharcds I can use to understand the concepts?



Flashcards for Understanding Learning Techniques:

Card 1:

Front: What is the Forgetting Curve?

Back: It shows how memory fades over time after learning something.

Card 2:



how can I use flashcards on my cell phone

Afficher les suggestions ▾



There are several ways to use flashcards on your cell phone, depending on your preferences and desired features:

Dedicated Flashcard Apps:

- **Anki:** This free, open-source app is widely considered the gold standard for digital flashcards. It offers robust features like spaced repetition algorithms, multiple card types, and extensive customization options. It's ideal for serious learners who want fine-grained control.
- **Quizlet:** This popular app provides a user-friendly interface and various learning

CONCRETE EXAMPLES



what are some concrete examples of someone using spaced repetition



Here are some concrete examples of people using spaced repetition in various situations:

Student studying for an exam:

- Creates flashcards with key concepts and formulas from each chapter.
- Uses a spaced repetition app to schedule reviews at increasing intervals throughout their study period.

DUAL CODING WITH AI



do you know of any websites that explain the feynman technique

Afficher les suggestions ▾



Yes, I do! Here are some websites that explain the Feynman Technique:

General explanations:

- **Farnam Street:** <https://fs.blog/tag/richard-feynman/> - This article provides a comprehensive overview of the technique, including its benefits, how to implement it, and common mistakes to avoid.
- **Todoist:** <https://todoist.com/inspiration/hidden-features-todoist> - This article focuses on the practical application of the technique, offering helpful tips and

EXPLAINING TO AI AS A BEGINNER

Elaboration/Feynman Technique



I'm going to try to explain spaced repetition to you and I want you to ask questions as a neophyte.



PART III : A SHORT INTERACTIVE QUIZ

IN WOOC LAP

never stop daring

AUDENCIA

Audencia advocates a technological humanist stance and believes that technology will improve human performance.

Unless otherwise stated by your teacher, the use of generative artificial intelligence tools is permitted in documented and homework assessments.

However, you **must declare** this use in writing to the professor(s) teaching your course, specifying (1-2 pages maximum):

- For what purpose(s) was the tool used (e.g., creating a draft, rewriting to improve readability, producing images)?
- What exact content was generated (e.g. slides 3-12, paragraph xxx on topic xxx, calculations for question xx, the whole essay),
- How has this enhanced or altered the skills the course aims to develop (expected learning outcomes)?

Students are reminded of the principles of academic integrity and plagiarism: you must declare any work that is not your own in a clear and unambiguous manner.



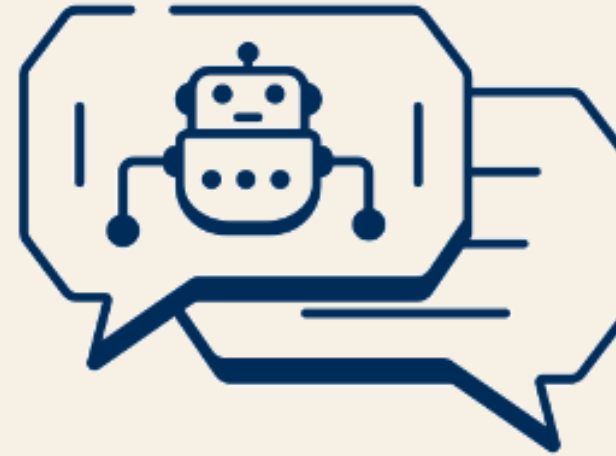
ETHICS & RIGHTS

never stop daring

SAFETY & SECURITY



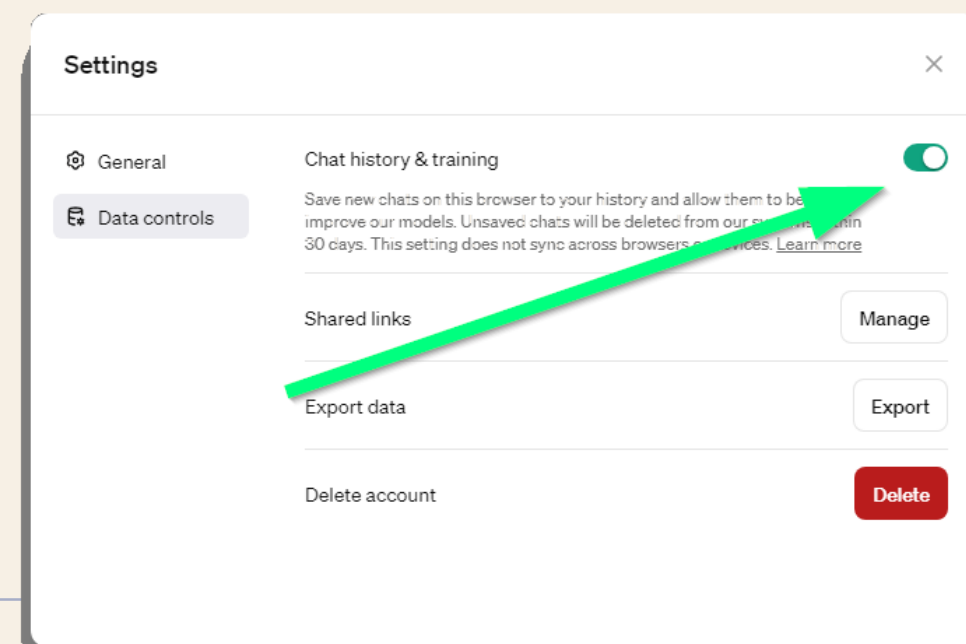
Don't share private information



Conversations are not confidential. Used by AI to learn.



Chat GPT collects data about you



IN THE END...

AI tools may spark ideas, save you time, offer models, and help you improve your writing skills. Just plan to bring your critical thinking skills to bear as you begin to experiment with and explore AI tools.

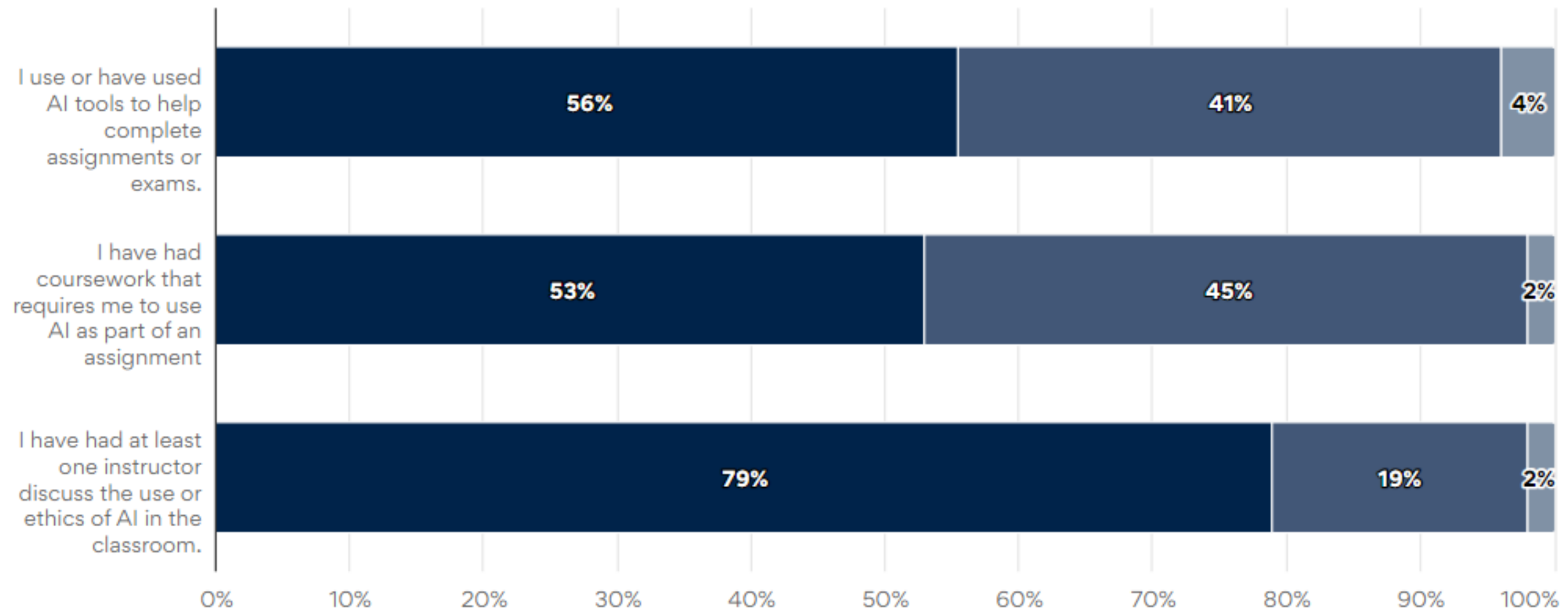
Do NOT submit chatGPT work as your own!

« Comme j'avais un doute (une intuition ?), j'ai passé un, puis plusieurs articles à un vérificateur de contenu Chat GPT, Zéro GPT. Assez affligeant : sur 16 étudiants, 12 ont utilisé Chat GPT dans des proportions souvent importantes, et seulement 4 ont fait ça sérieusement, "à l'ancienne" devrais-je dire... »

GETTING HELP VS CHEATING

Student Responses on the Use of AI

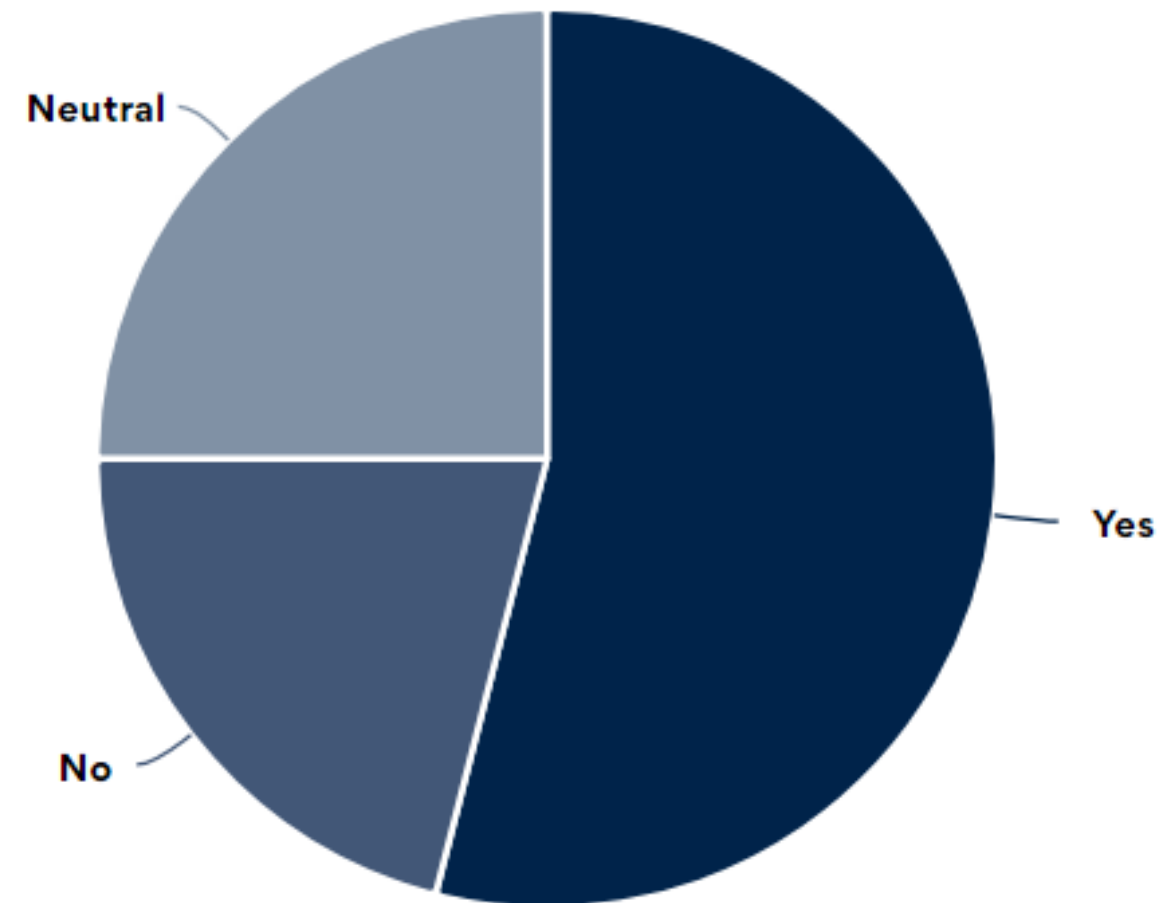
■ Yes ■ No ■ Prefer Not to Say/I Don't Know



GETTING HELP VS CHEATING

"Using AI Tools to Complete Assignments or Exams Is Cheating or Plagiarism"

■ Yes: 54% ■ No: 21% ■ Neutral: 25%



USES OF AI BY STUDENTS TO LEARN

- ✓ Summarize long text or readings to prepare for class discussion
- ✓ Editing text you have written as a grammar tool (more concise, more academic) (word count limits)
- ✓ Transform text to audio (TTS) to listen to assigned readings (for aural learners) (speechify, google docs, word 365)
- ✓ Transform audio to text (STT) to read an audio lecture (for Read/write learners)



PROMPTING

never stop daring

PROMPTING

In order to generate responses from AI tools, you start by asking a question or making a request, called a “prompt.”


You can experiment with brief prompts...

and with prompts that include as much information as possible, like information about the goal, the context, and the constraints.

EFFECTIVE PROMPTING

- ✓ Clear and concise question or instruction: what do you want?
- ✓ Contextual information : background information, level of detail , personalisation
- ✓ Specify the format : bullet points, table, list, paragraph, poetry,
- ✓ Length limitation : number of words or paragraphs
- ✓ Polite : it is responding to how you prompt it
- ✓ Iterative refinement : Refer to previous response and build on it


PROMPTING


 You
what is blockchain

 ChatGPT
Blockchain is a decentralized and distributed ledger technology that allows multiple parties to have a transparent and secure way of recording and verifying transactions without the need for a central authority. It is the underlying technology behind cryptocurrencies like Bitcoin, but its applications extend far beyond digital currencies.

Here are some key features and concepts associated with blockchain:

1. **Decentralization:** Unlike traditional centralized systems, blockchain operates on a network of computers (nodes) distributed across the globe. Each node has a copy of the entire blockchain, and no single entity has control over the entire network.
2. **Transparency:** All transactions on the blockchain are visible to all participants in the network. This transparency helps ensure accountability and trust among users.
3. **Immutability:** Once a block of data is added to the blockchain, it is extremely difficult to alter or delete. This is achieved through cryptographic hashing and consensus mechanisms.
4. **Consensus Mechanisms:** Blockchain relies on consensus algorithms to achieve agreement among nodes on the validity of transactions. Popular consensus

 You
explain blockchain as if I was 11 years old in simple language with a relevant example for my age

 ChatGPT
Sure, let's imagine a blockchain as a super secure and magical notebook that lots of people use to keep track of their cool stickers.

Imagine you and your friends have this special notebook, and whenever someone gets a new sticker, they write it down in the notebook. But here's the cool part: everyone in your group has a copy of the same notebook, and they can all see what stickers everyone else is getting.

Now, when someone wants to add a new sticker to the notebook, all your friends have to agree that it's a valid sticker. They do this by solving a little puzzle or answering a riddle. Once they all agree, the new sticker is added to the notebook, and everyone updates their own copy.

Here's why it's so awesome:

1. **No Cheating:** Because everyone has their  copy of the notebook and needs to

A large, stylized number '1' composed of three white, slanted rectangular blocks. The top block is a thin horizontal bar. The middle block is a tall vertical rectangle. The bottom block is a shorter vertical rectangle. The word 'BACKUP' is centered within the middle block.

BACKUP



never stop daring

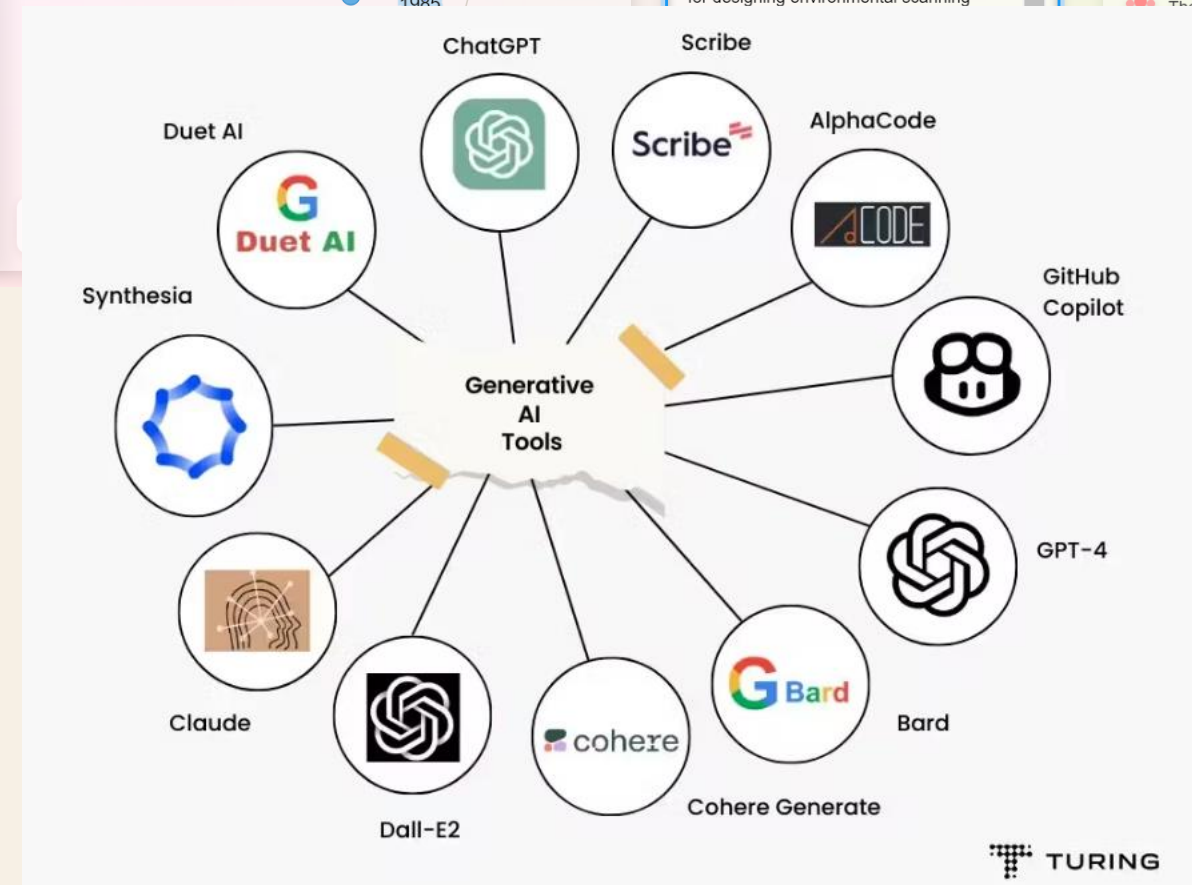
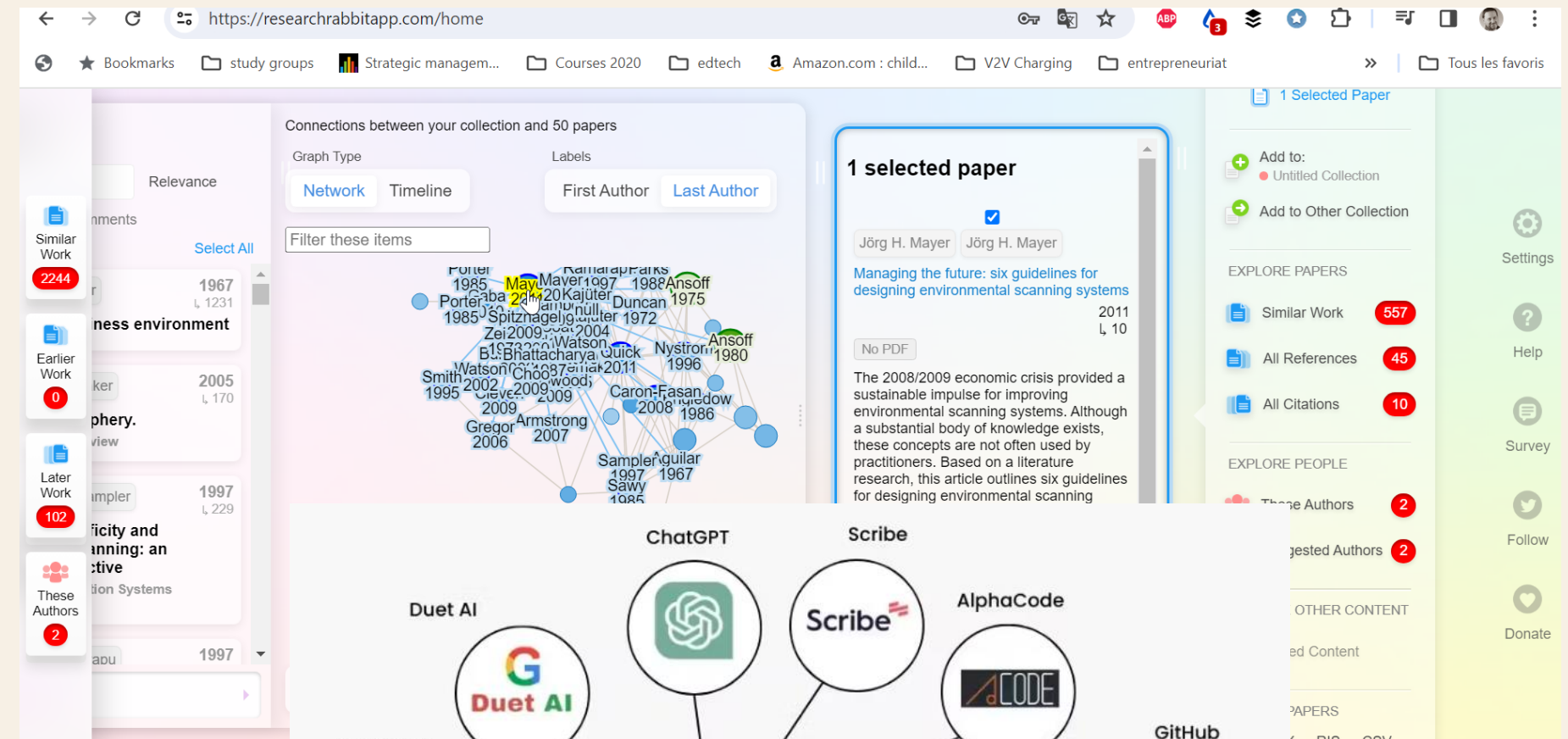
SOME AI ENGINES

ChatGPT
Scribe
Gemini(Google)

SciSpace : a valuable tool to have in your arsenal. It has a repository of 270M+ papers and makes it easy to find research articles.

Iris AI : a specialized tool that understands the context of your research question, lets you apply smart filters, and finds relevant papers.

Research Rabbit : a research discovery tool that helps you find new, connected papers using a visual graph



GENERATIVE AI FOR STUDYING

How can you use AI to help learn ?



- ✓ Generate practice quizzes
- ✓ Generate short answer questions at different levels of difficulty
- ✓ Create flash cards from your notes
- ✓ Propose mnemonic devices
- ✓ Create study guides
- ✓ Summarize or organize your notes
- ✓ Seek different ways to understand a subject
- ✓ Brainstorm ways to start a new project
- ✓ Stimulate your thinking and develop new ideas
- ✓ Inspire you to ask questions you might not otherwise consider
- ✓ Role play a “beginning” student you explain a subject to

GENERATIVE AI FOR STUDYING

Summarising

Summarising and explaining notes: If you have study material that is long and/or hard to understand, you can ask ChatGPT to summarise it for you and, even better, provide bullet points or simplify the language.

Ex. Ask chatgpt to summarize a long text

Ex. Ask chatgpt to summarize a long text adding practical examples

Ex. Ask chatgpt to explain “cash flow” using an analogy

Ex. Break down (subject/ topic) into smaller, easier-to-understand parts.

Use analogies and real-life examples to simplify the concept and make it more relatable.”

Une école

 CCI NANTES ST-NAZAIRE



Thank you for your attention.

