Understanding generative AI

Important rules

- ➔ **DO** research in English only
- ➔ **DO** use websites, articles, and videos in English
- ➔ **DO NOT** use Google Translate
- ➔ **DO NOT** use any generative AI tools (ChatGPT, Claude, Gemini, etc.)
- ➔ **DO** write everything in your own words
- ➔ **DO** practice your presentation

Your assignment

You will research generative AI and create a presentation to share with the class. Your presentation must cover three main topics.

Part 1: Names of different generative AI tools

What you need to do:

- ➔ Make a list of different generative AI tools that exist today
- ➔ Include at least 8-10 different tools

➔ Organize them by category (for example: text, image, video, music, code)

➔ Information to include for each tool:

- The name of the tool

- The company that created it

- What type of content it creates (text, images, videos, etc.)

- When it was launched (year)

Example format:

• Tool name: ChatGPT

• Company: OpenAI

• Type: Text generation

• Launch year: 2022

Part 2: How generative AI works (Focus on LLMs)

What you need to explain:

A. What is an LLM?

➔ What does LLM mean? (Large Language Model)

➔ What is the purpose of an LLM?

B. How does an LLM learn?

➔ Where does the training data come from?

➔ What is "training" for an AI?

➔ How much data does an LLM need?

C. How does an LLM generate answers?

➔ What happens when you ask a question?

➔ How does it choose the words in its response?

➔ Does it really "understand" or is it something else?

<u>Tips for this section:</u>

• Use simple diagrams or images to explain the process

• Think of a good comparison or example to help people understand

• You can use terms like: training, data, tokens, parameters, neural networks

(but explain what they mean!)

Part 3: How to use generative AI in a Clever Way

<u>What you need to explain:</u>

A. Good ways to use generative AI:

➔ Give at least 5 examples of smart uses

➔ Examples could be: learning, research, brainstorming, coding help, translation, summarizing, etc.

➔ Explain WHY each example is a good use

B. How to write good prompts:

➔ What is a "prompt"?

➔ Show examples of a BAD prompt vs. a GOOD prompt

➔ Give tips for getting better results

C. What NOT to do with generative AI:

➔ Give at least 4 examples of bad practices

➔ Examples: copying homework, spreading false information, avoiding learning, etc.

➔ Explain WHY these are problems

D. How to check if information is correct:

➔ How can you verify what AI tells you?

➔ Why is it important to check the information?

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Presentation Requirements

Slides:

➔ Minimum: 15 slides (not counting title and references)

➔ Maximum: 25 slides

➔ Include a title slide with your name

➔ Include a final slide with your sources (websites, articles, videos you used)

Design:

➔ Use clear fonts that are easy to read

➔ Include images, diagrams, or icons to make it interesting

➔ Don't put too much text on one slide

➔ Use colors that work well together

Content:

➔ Write in simple English (use short sentences)

- ➔ Use bullet points to organize information
- ➔ Include examples to make things clear
- ➔ Add page numbers to your slides

Speaking:

- ➔ Presentation time: 10-15 minutes
- ➔ Everyone must speak during the presentation
- ➔ Practice!
- ➔ Speak clearly and not too fast
- ➔ **DO NOT READ**
- ➔ Be ready to answer questions from the audience

Base de connaissances

How to research (Tips)

1. Good websites to start:

- ➔ NOT Wikipedia
- ➔ Official websites of AI companies (OpenAI, Google AI, Anthropic, etc.)
- ➔ Technology news sites (TechCrunch, Wired, The Verge)
- ➔ YouTube videos (search "how does AI work" or "what is LLM")

2. Take notes while you research:

- ➔ Write down important information

➔ Save the website links for your references

➔ Write things in your own words

3. If you don't understand a word:

➔ Use an English-English dictionary (not translation!)

➔ Try: Cambridge Dictionary, Merriam-Webster, or Oxford Learner's Dictionary

➔ Look for simpler explanations on different websites

Compétences visées

Grading criteria

Your presentation will be evaluated on:

➔ Content (**40%**): Complete information, clear explanations, good examples

➔ Research quality (**20%**): Using good sources, accurate information

➔ Presentation design (**20%**): Clear slides, good organization, visual appeal

➔ Speaking skills (**20%**): Clear speaking, good timing, teamwork, answering questions