

Enabling people to use ChatGPT

INTRODUCTION TO CHATGPT



James Chapman

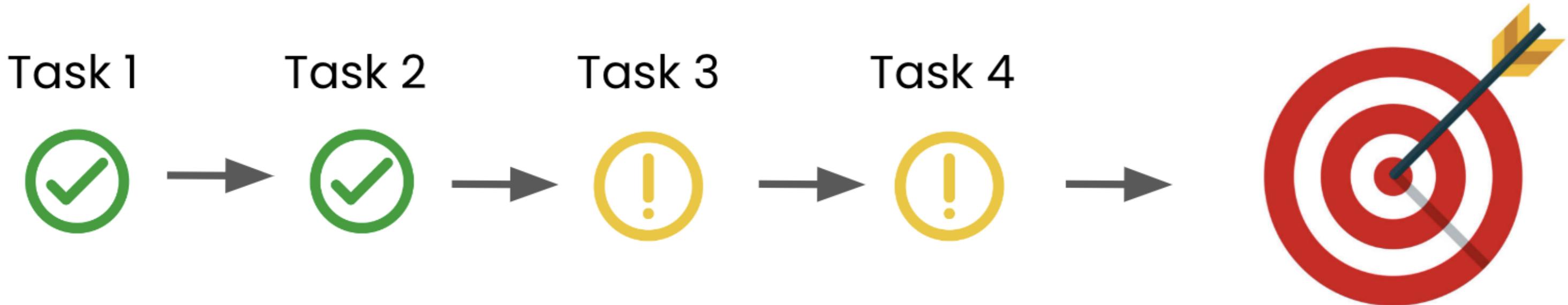
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Augmenting workflows

Workflow: Standardized series of tasks to achieve an end goal

Aims:

- Highest-quality output
- Shortest timeframe



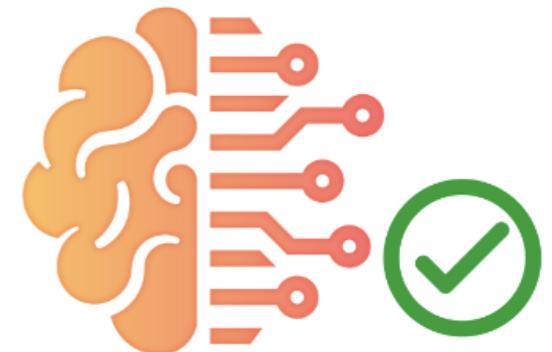
A standard workflow

- **Example:** Summarizing a project scoping document
 - 30 pages → summary of key findings
- We extract the key findings and compile the summary
- Using a spelling and grammar checker to proofread

Create summary



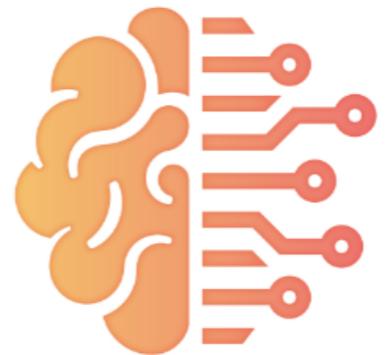
Proofread



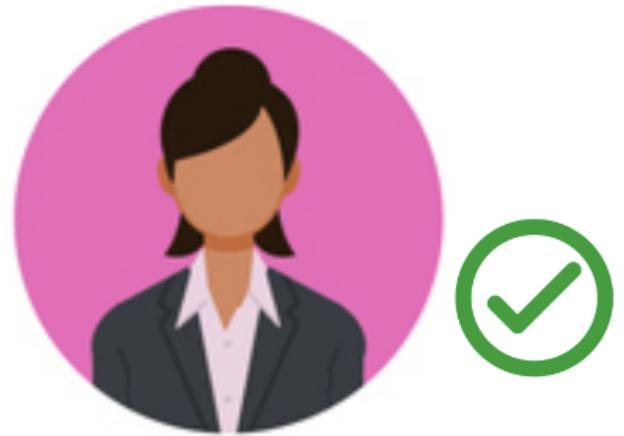
A ChatGPT-powered workflow

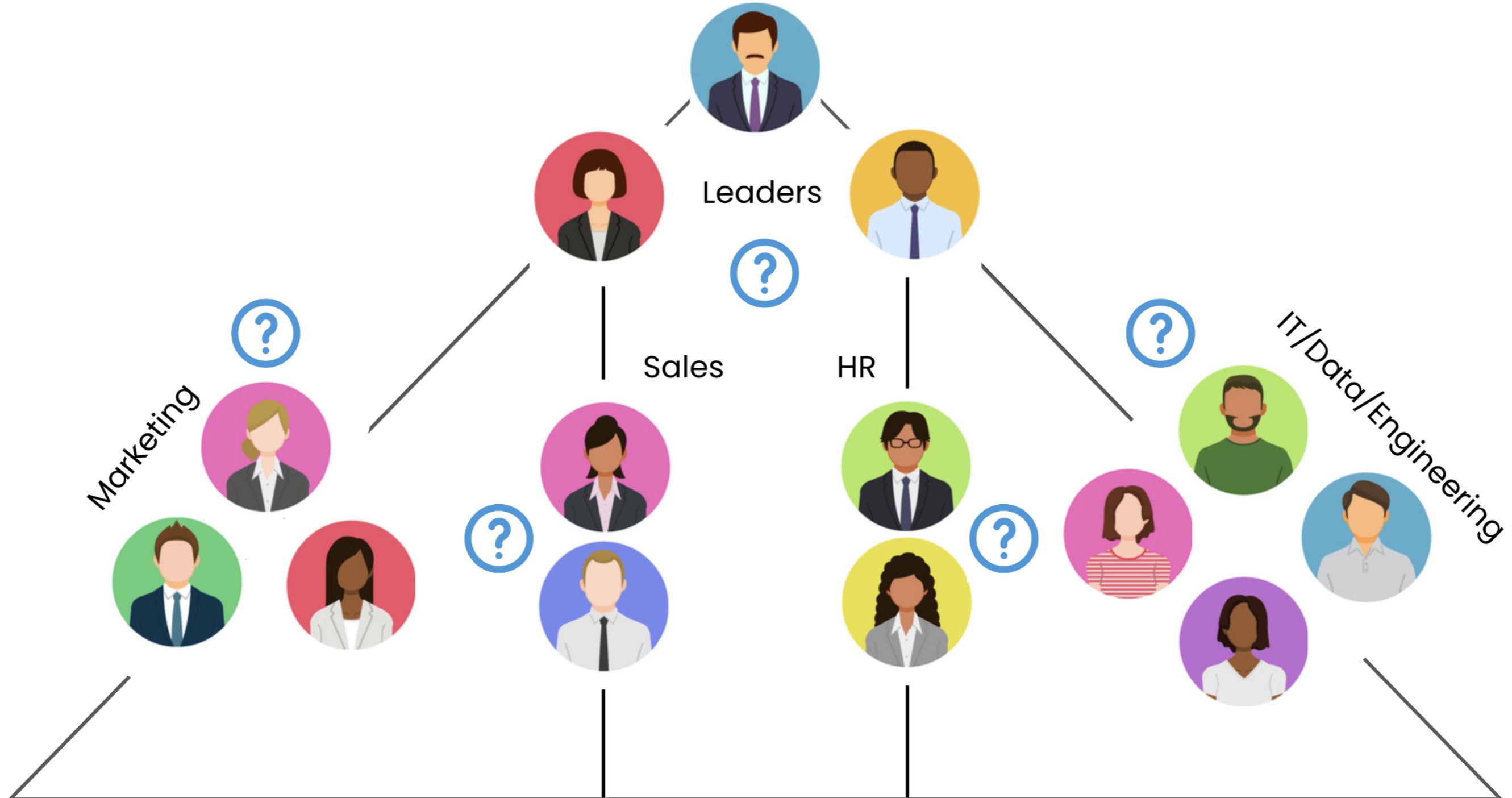
- **Example:** Summarizing a project scoping document
 - 30 pages → summary of key findings
- ChatGPT allows us to *reverse* the roles
- Human now becomes the *proofreader*
- Huge time-savings!
- Allows us to focus on more creative tasks

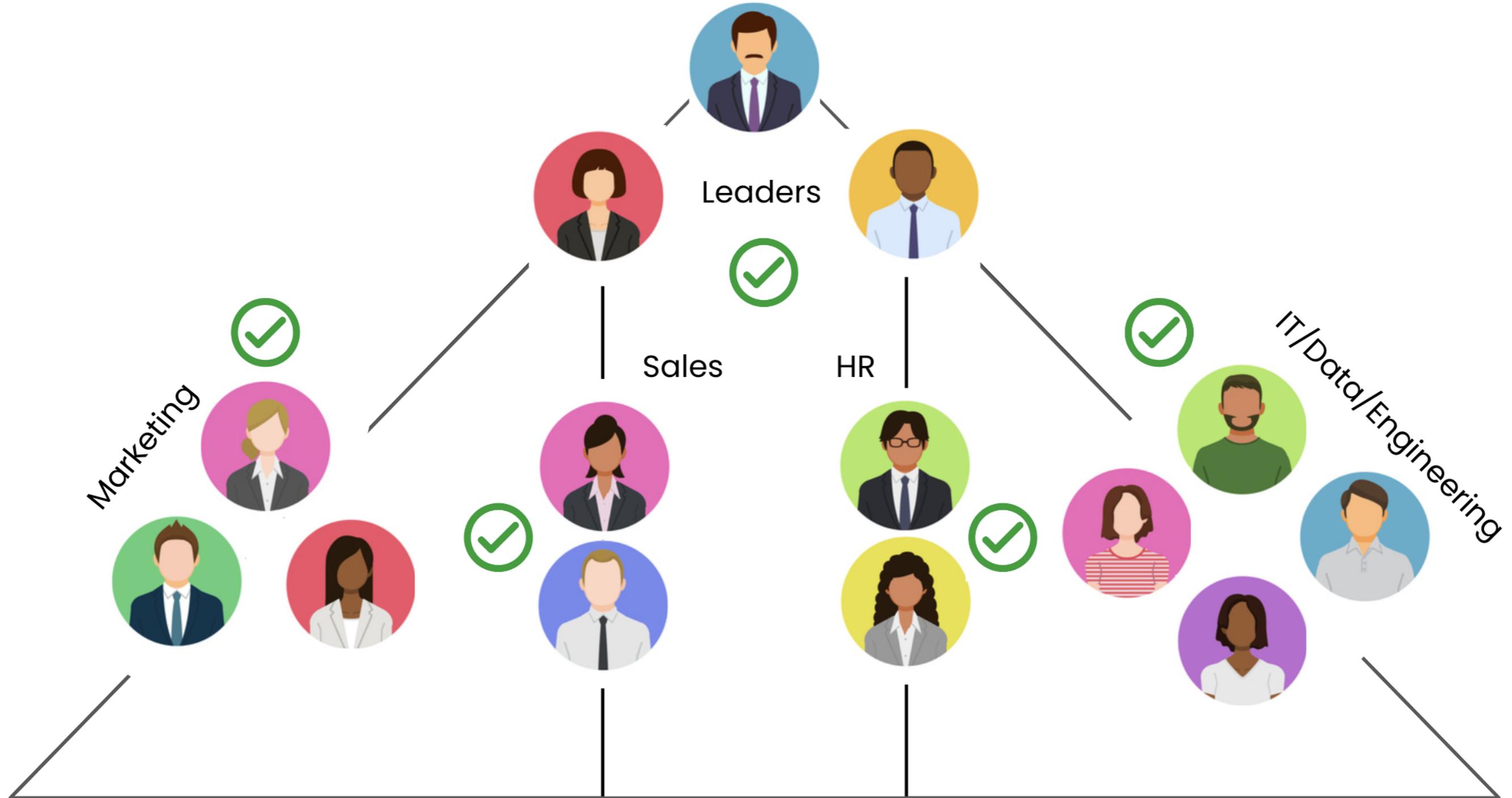
Create summary



Proofread







Leaders



Use cases:

- Compose emails
- Draft presentations
- Brainstorm strategic ideas
- Summarize meeting notes

Technical roles



Use cases:

- Recall code syntax
- Generate examples
- Explain code
- Troubleshoot errors
- Write documentation

HR and people teams



Use cases:

- Brainstorm employee engagement and wellbeing initiatives
- Communicate more *effectively* and *efficiently*

Marketing



Use cases:

- Write social media posts
- Copyediting content
- Generating marketing copy
- Search Engine Optimization (SEO)

Sales



Use cases:

- Generate outreach templates
- Personalize outreach content
- Brainstorm strategies
- Summarize information

Let's practice!

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Identifying use cases for ChatGPT

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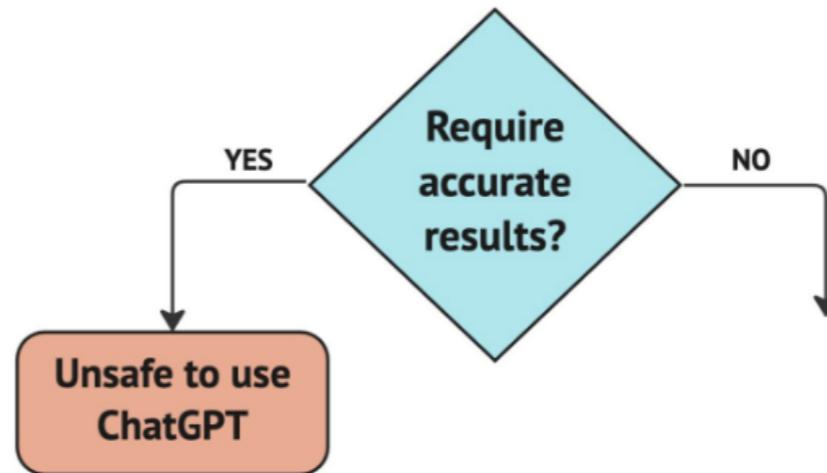
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Coming up...

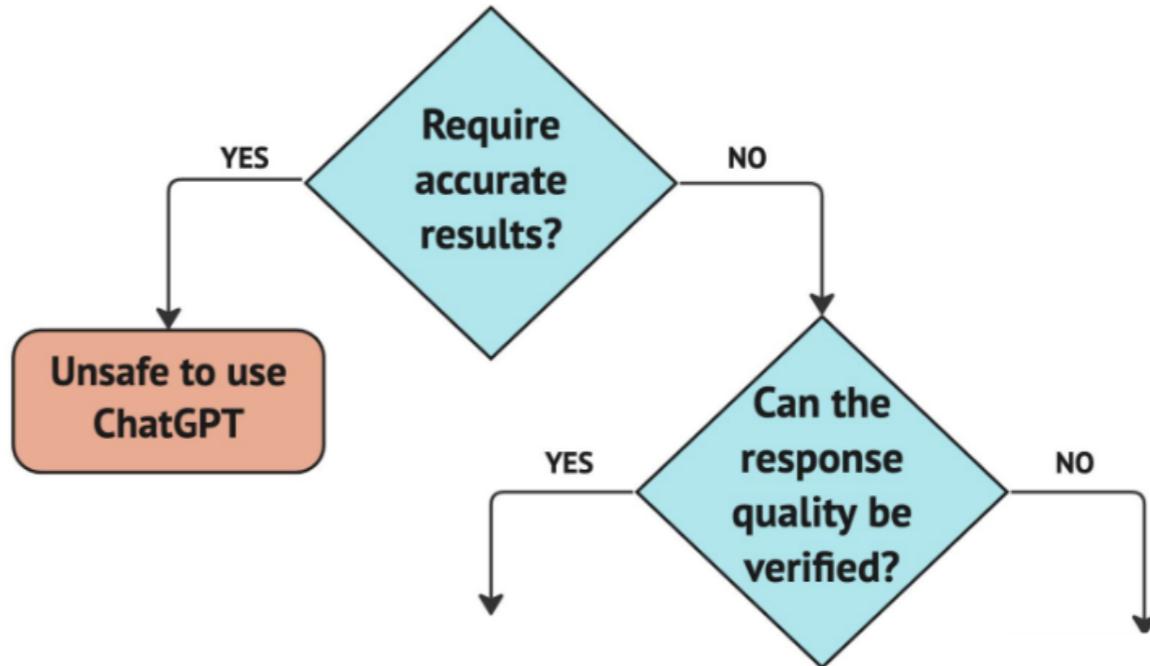


- Can be inaccurate
- No *predictability* in responses

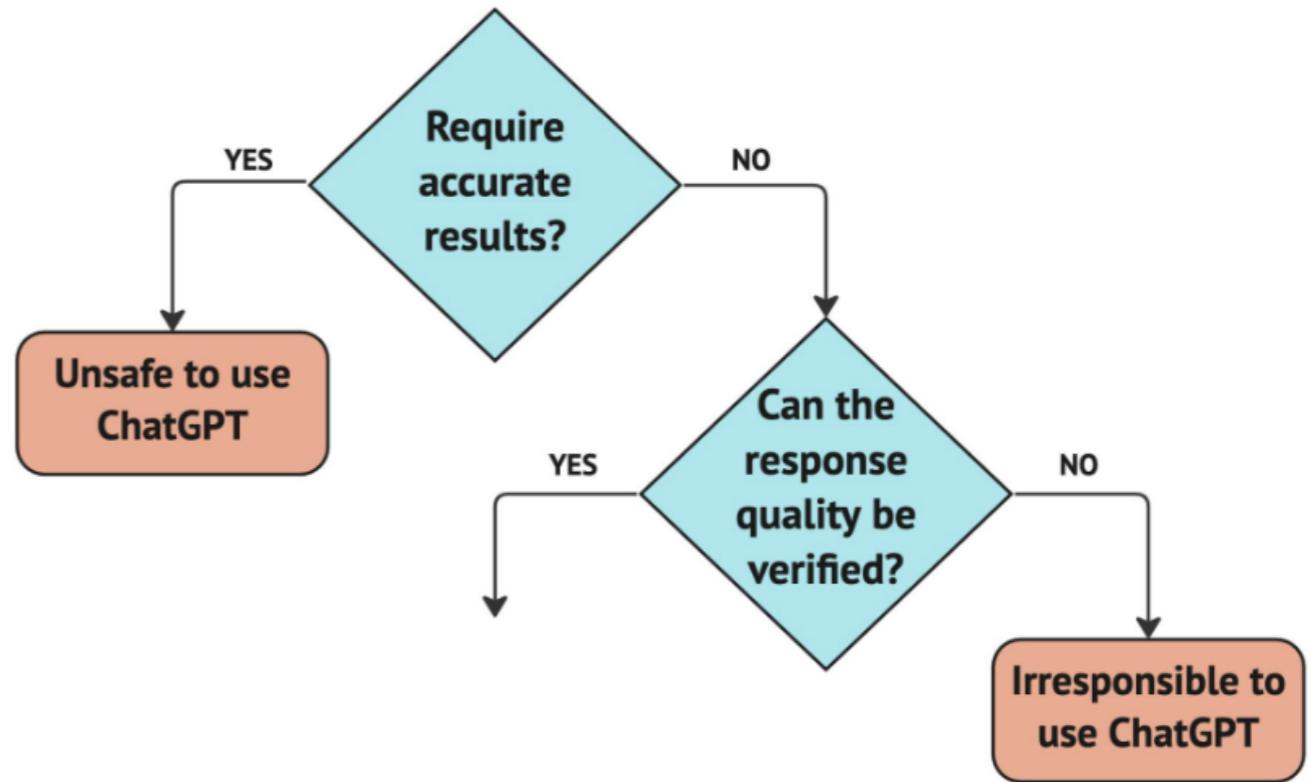


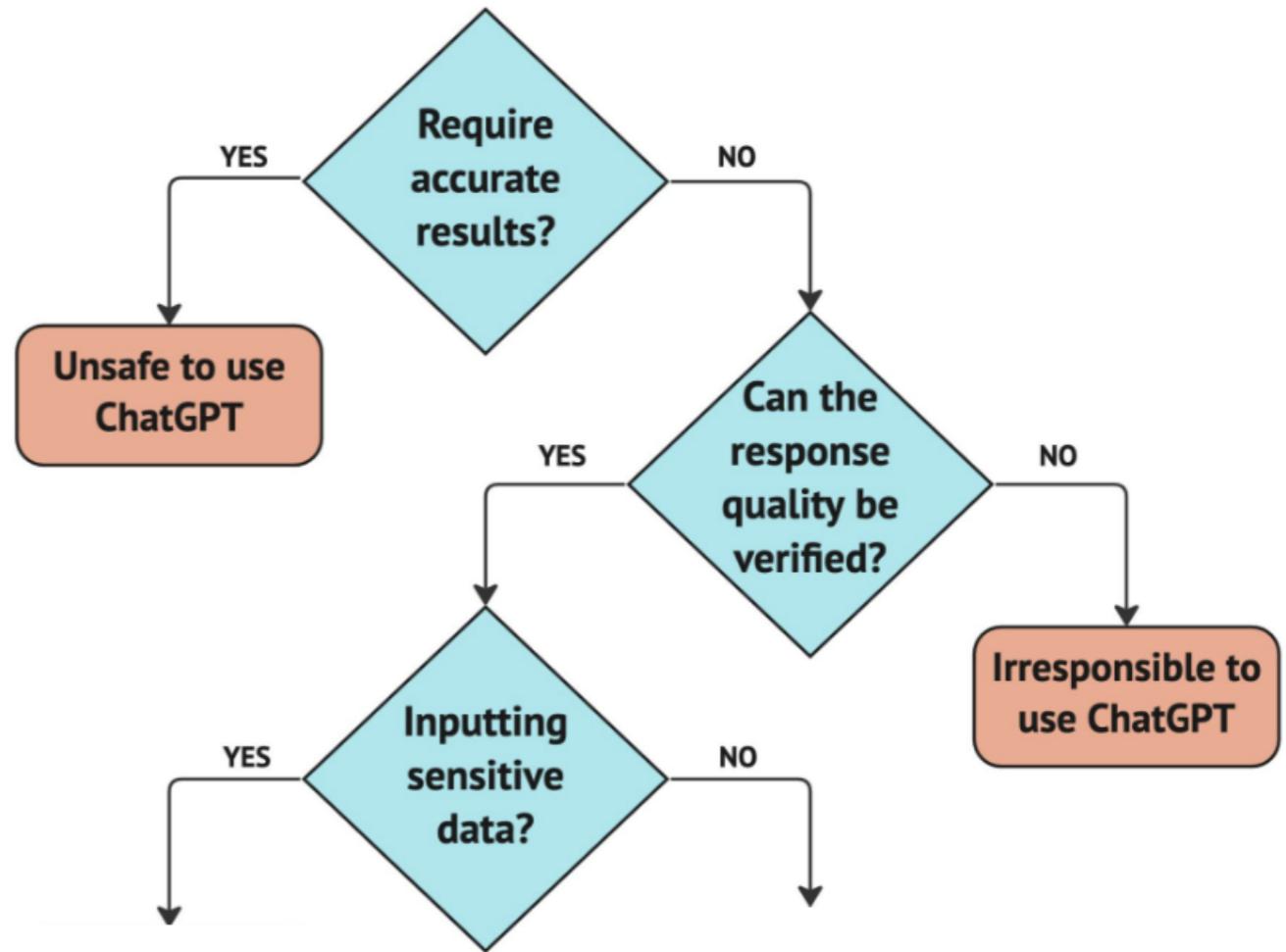


- Subject matter expertise is still very important!



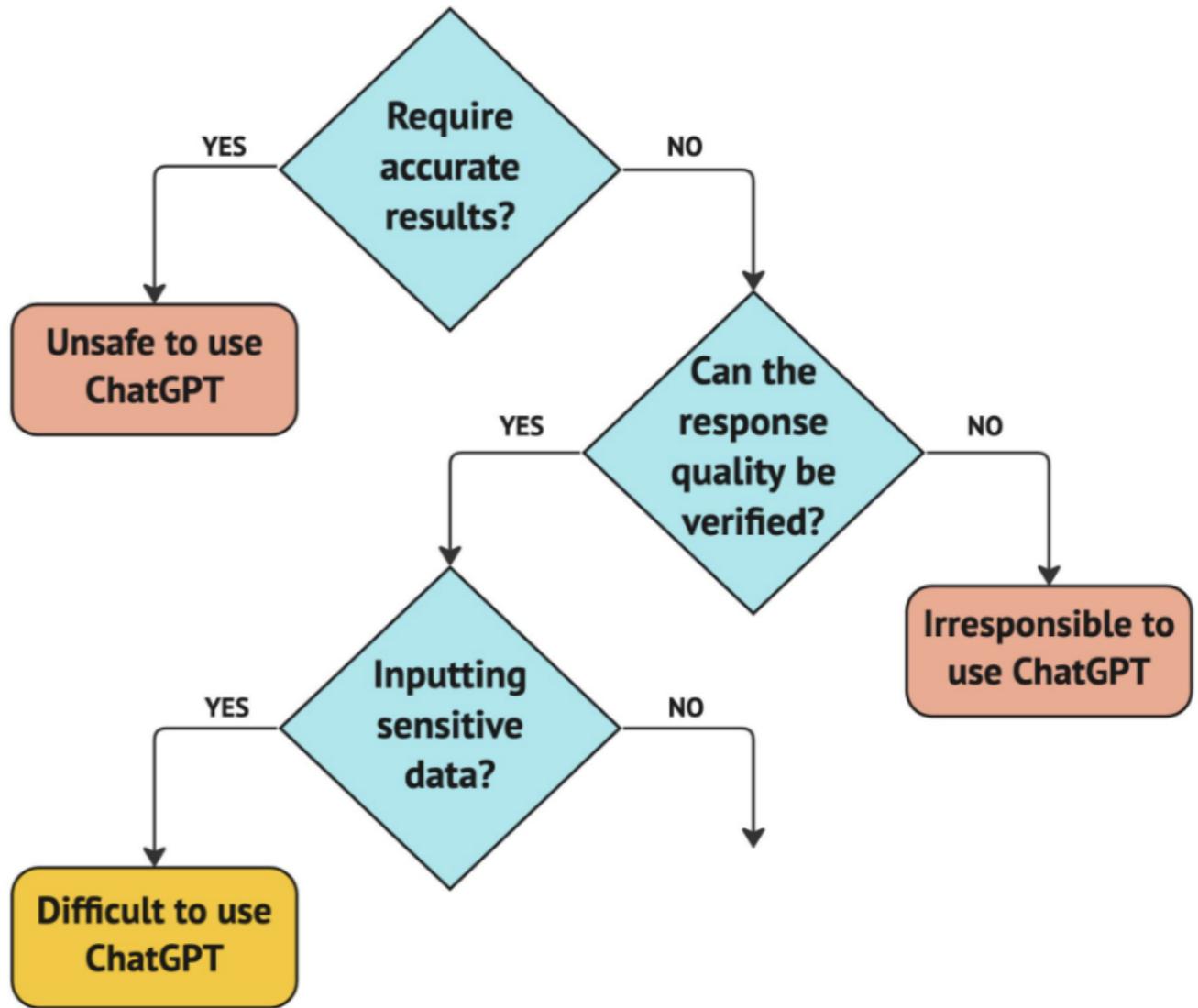
Rule-of-thumb: *Don't ask ChatGPT to do something that we couldn't do ourselves*

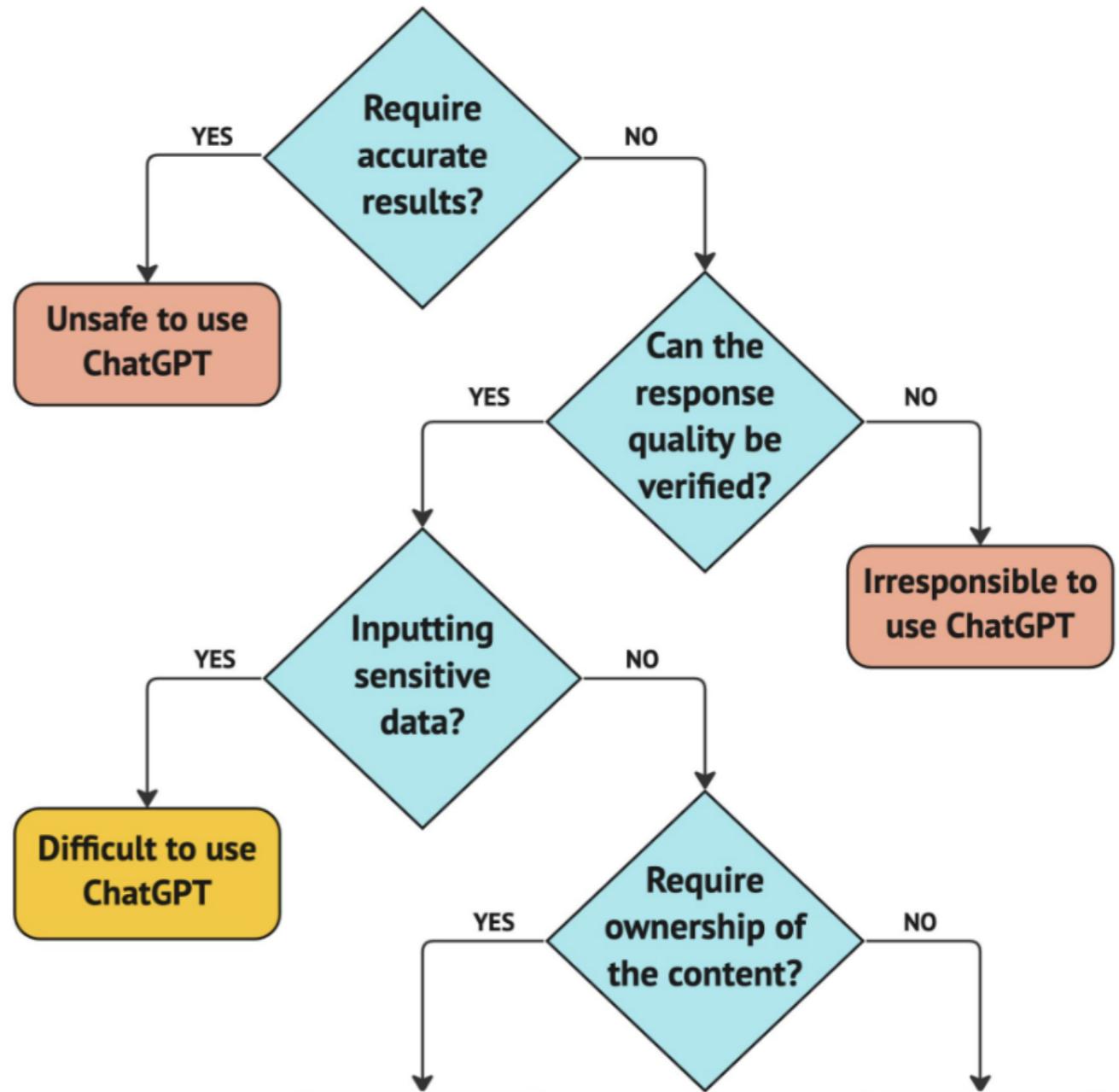




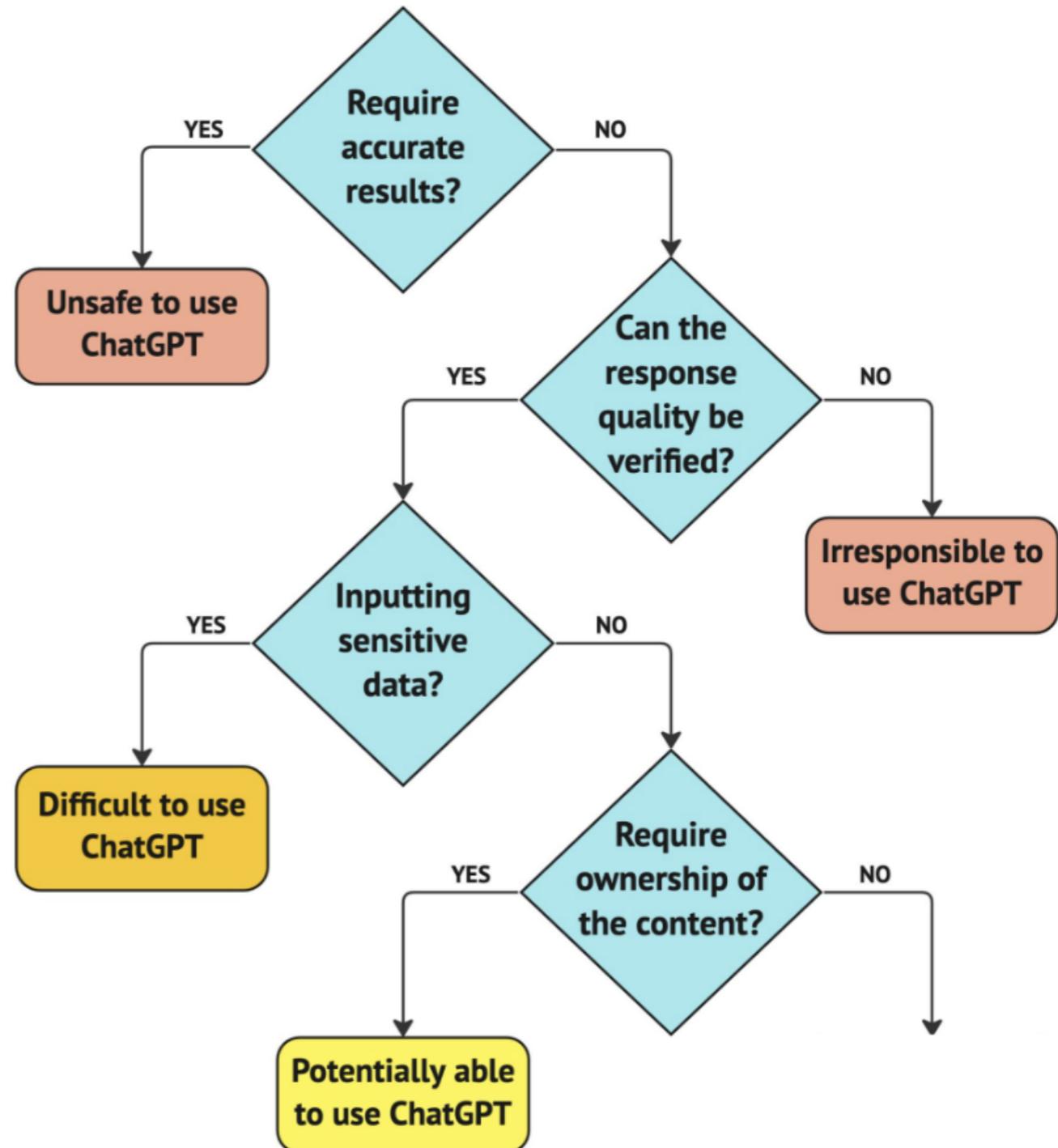
¹ <https://openai.com/policies/terms-of-use>

- Need consent to process the data
- Must adhere to data governance laws, such as *GDPR*
- Legal counsel may be able to enable the use case

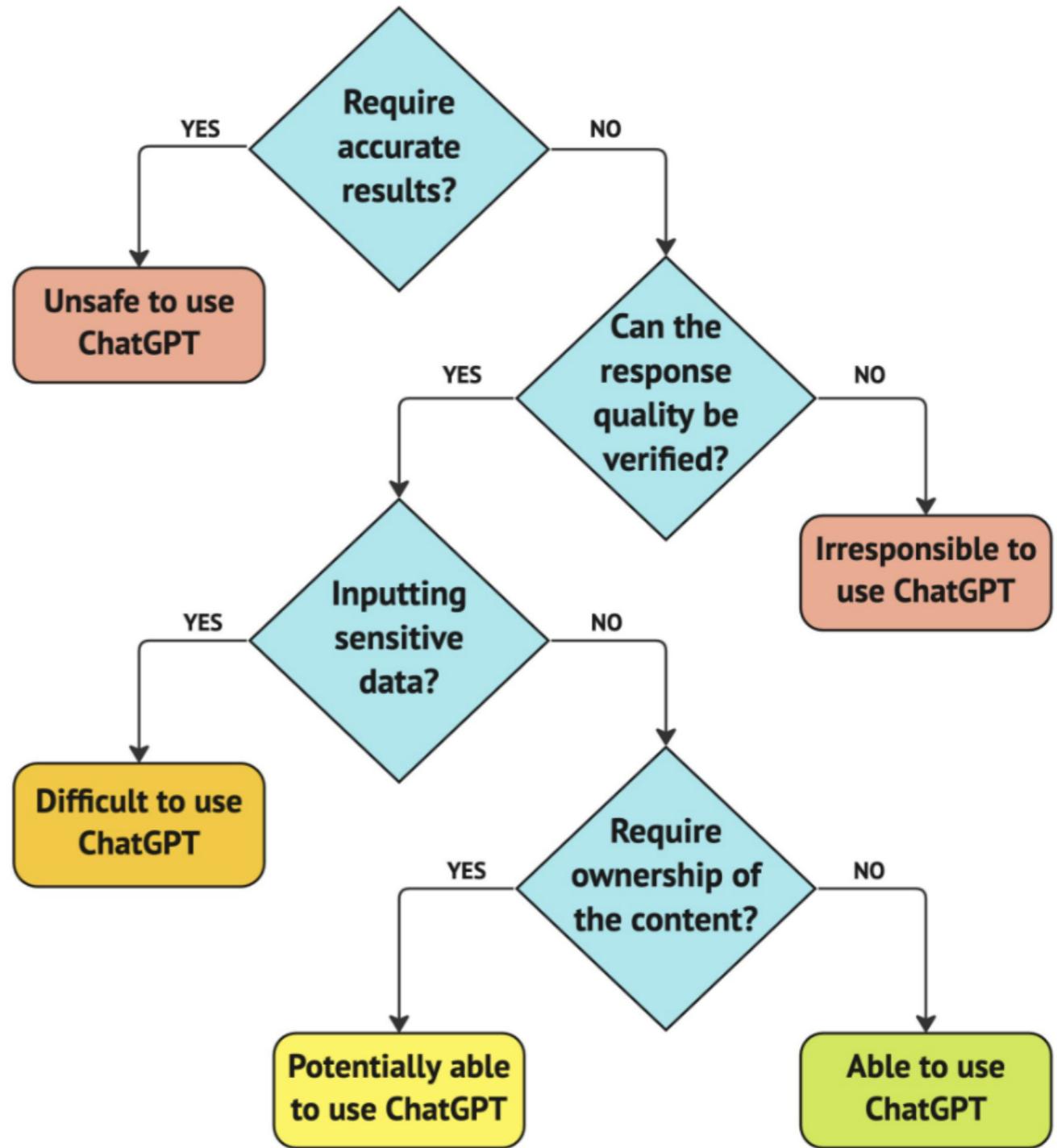




- Can claim ownership over ChatGPT output
 - Other considerations such as **copyright infringement** may prevent ownership
- Legal and ethics → Coming up!



¹ <https://openai.com/policies/terms-of-use>

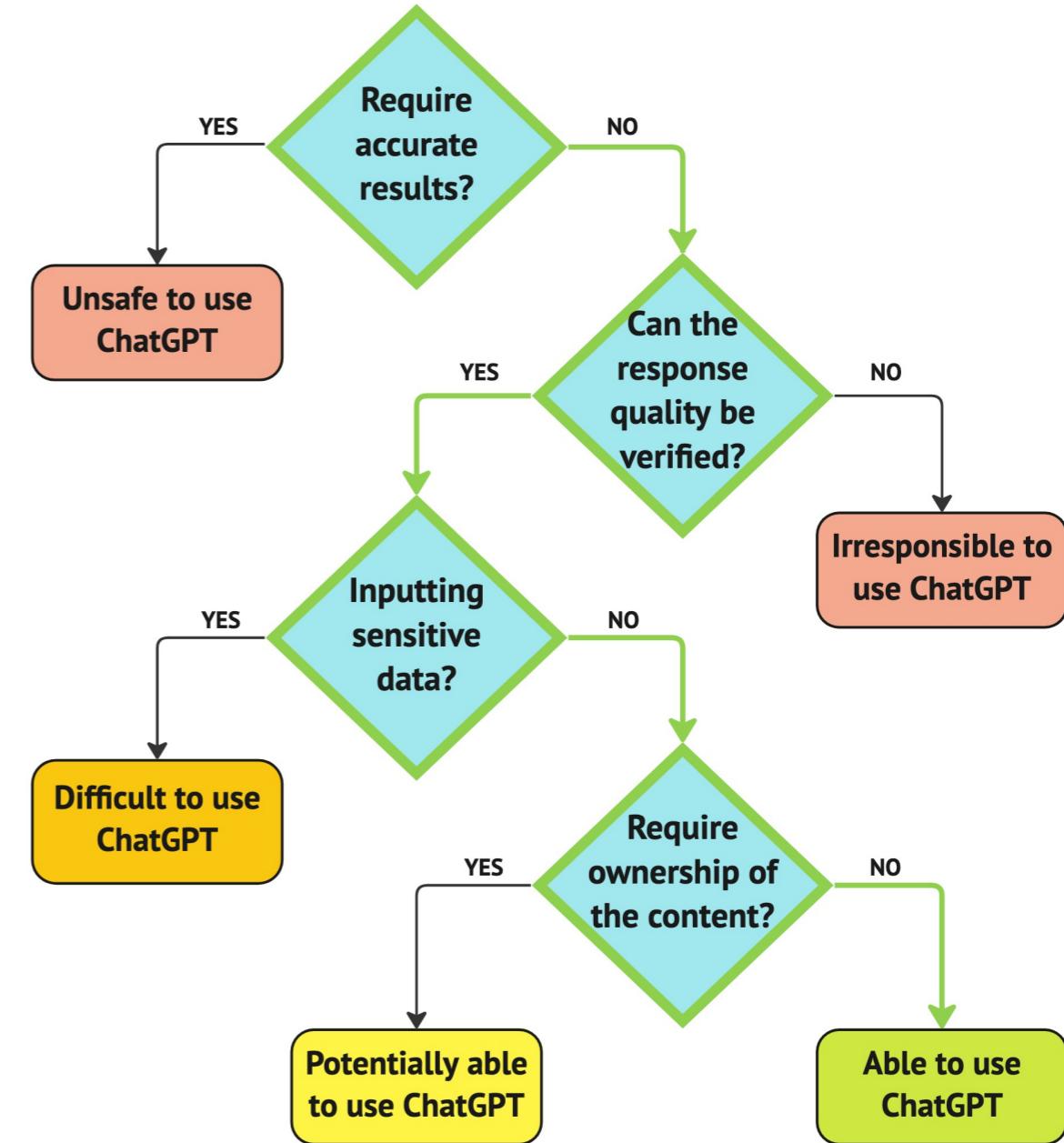


Example 1: Brainstorming ideas in HR

- Improve employee wellbeing

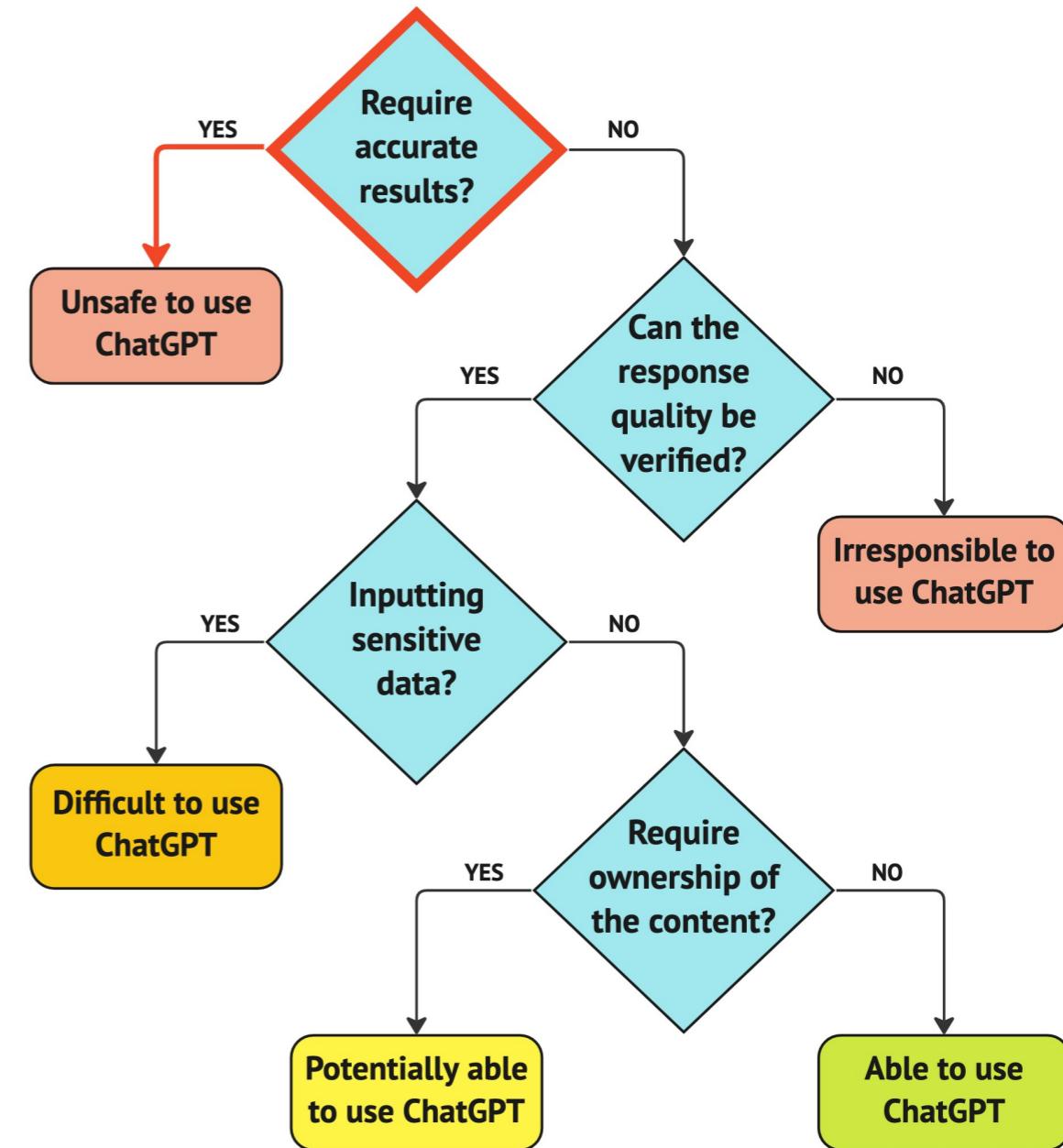
- Is this a suitable use?

1. Situation doesn't require definitive answers
2. HR Manager can verify response
3. Sensitive data isn't required
4. Response won't be used



Example 2: Healthcare recommendations

- Customers input their symptoms and receive *recommended action*
- Is this a suitable use?
- Use case requires *certainty* due to implications of poor recommendations
 - ChatGPT cannot provide this level of certainty



Let's practice!

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Ownership and privacy

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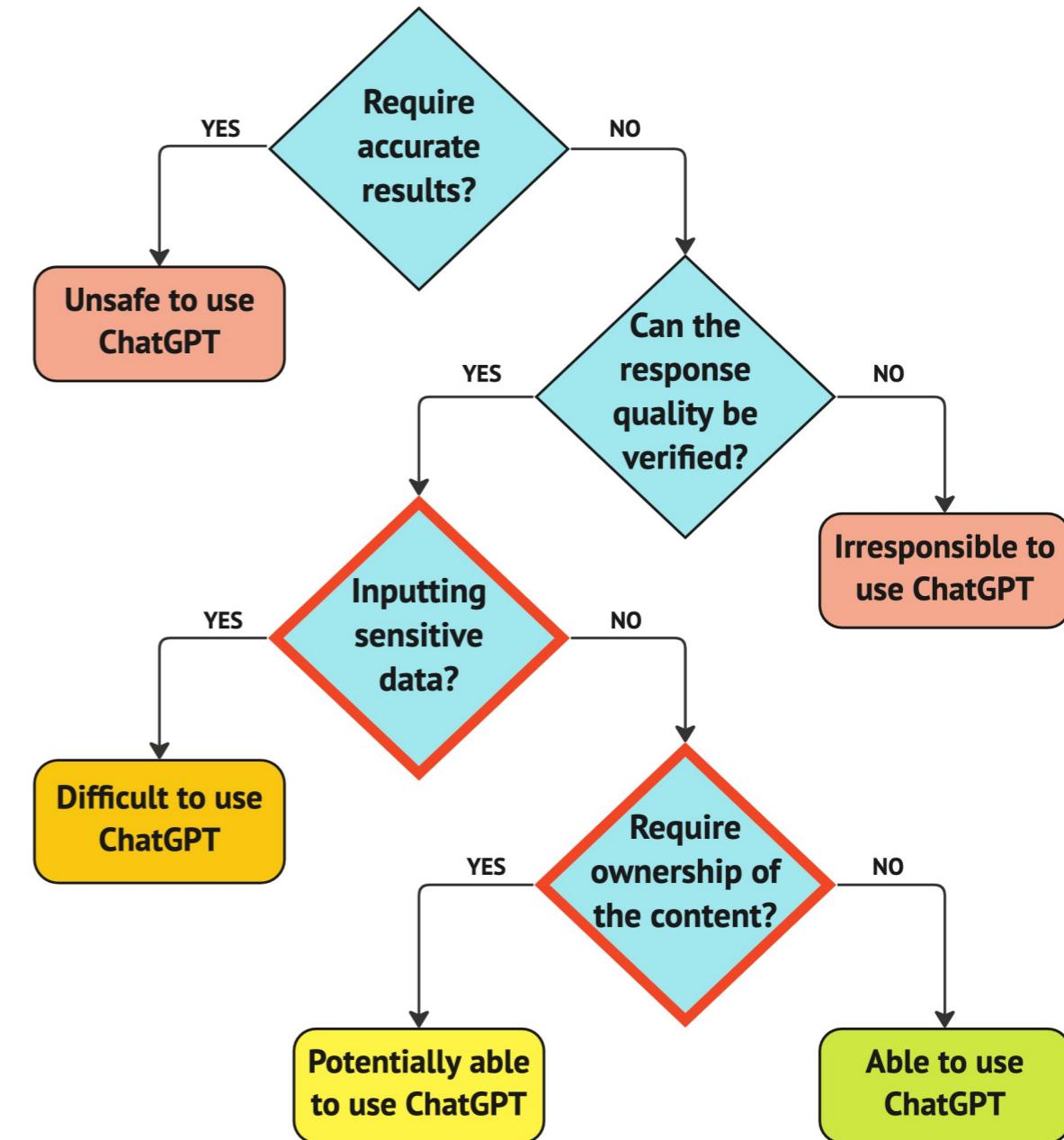


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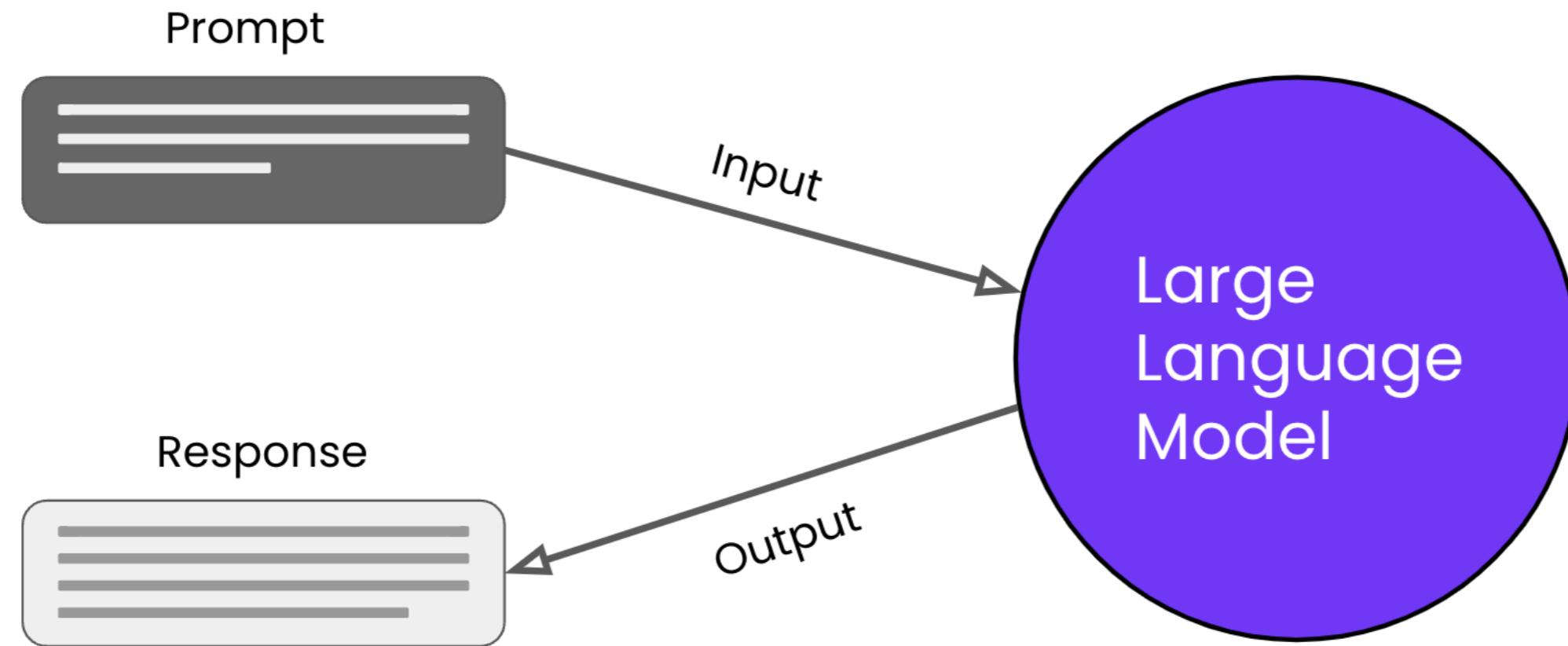
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Ownership and privacy

- Ownership and privacy are key considerations when validating the suitability of ChatGPT
- Neglecting them can risk financial *penalties, lawsuits, and brand damage*



Who owns the response?



Who owns the response?

... subject to your compliance with these Terms, OpenAI hereby assigns to you all its **right, title and interest** in and to Output.

- Assuming compliance, users *can* claim ownership over the response

¹ <https://openai.com/policies/terms-of-use>

Who owns the response?

... Responses that are requested by and
generated for other users are *not*
considered your Content

- Factual questions or generating small text snippets → cannot claim ownership

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Who owns the response?

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You may not represent that output from the Services was **human-generated** when it is not

- Factual questions or generating small text snippets → cannot claim ownership

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Who owns the response?

... Responses that are requested by and generated for other users are *not* considered your Content

- Factual questions or generating small text snippets → cannot claim ownership
- OpenAI's terms of use are updated frequently

You may not represent that output from the Services was **human-generated** when it is not

You may not use the Services in a way that **infringes**, misappropriates or **violates any person's rights**

- Includes *copyright infringement*

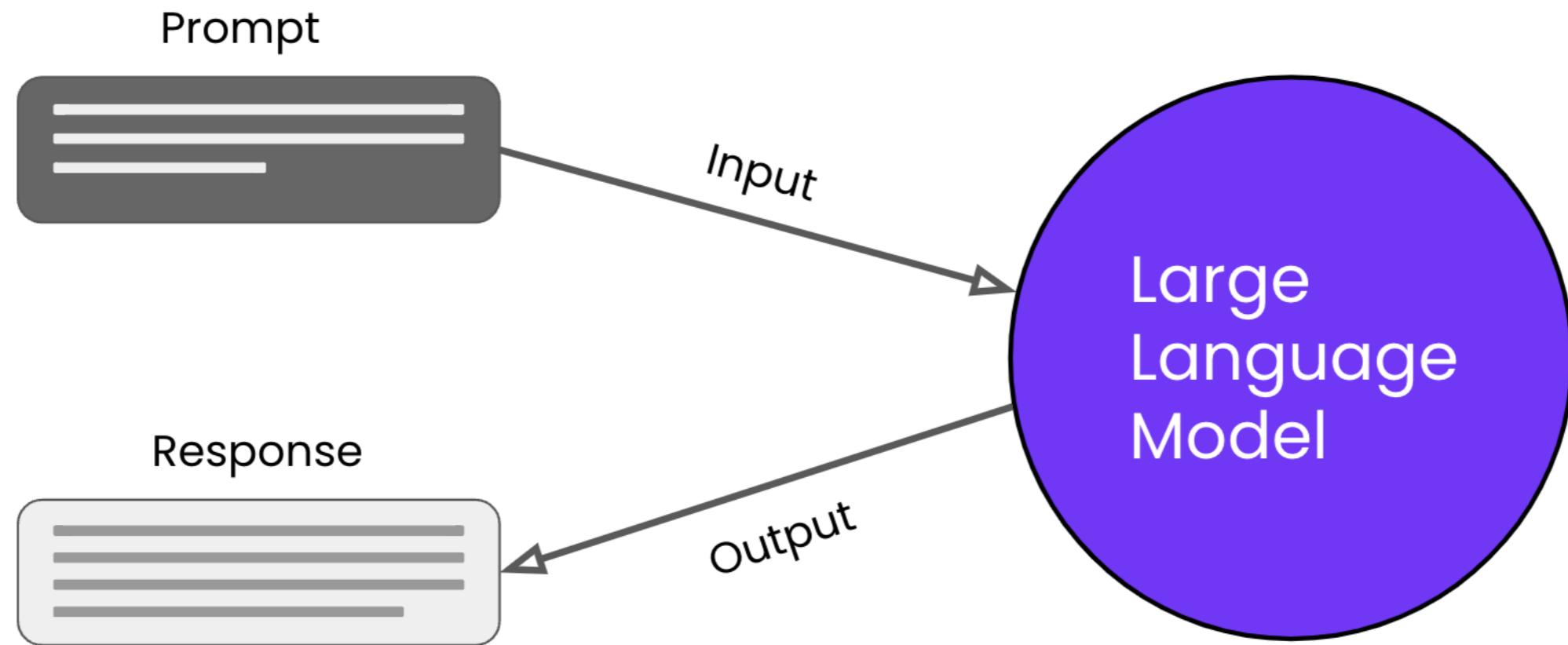
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Ownership and copyright

- Copyright: the rights of the owner of the intellectual property (IP) to use or distribute the material
- If generated content resembles copyrighted property, infringement claims *can* be made



Who owns the prompt?



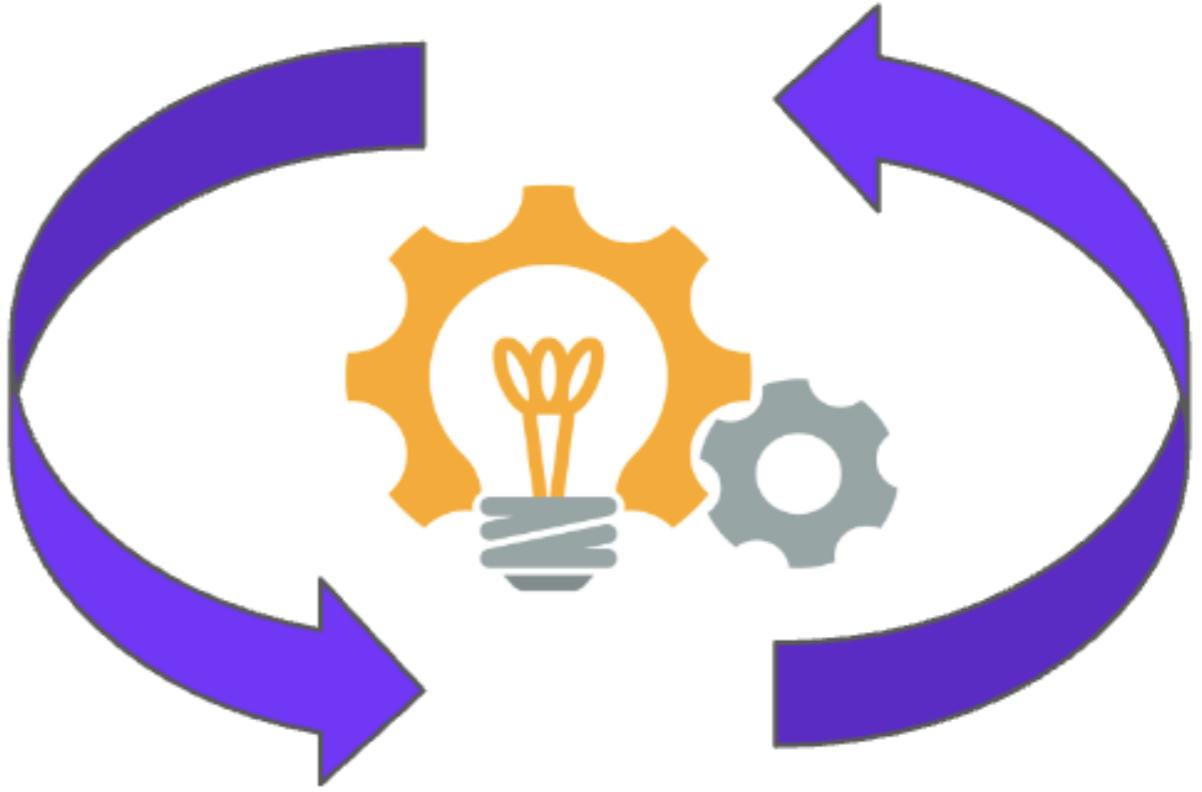
Who owns the prompt?

As between the parties and to the extent permitted by applicable law, **you own all Input**

¹ <https://openai.com/policies/terms-of-use>

Prompt privacy

- ChatGPT is being continuously developed and improved
- OpenAI may use prompts and responses for performance improvements
- May need to opt-out of usage agreement
- Risk of breaching data governance laws



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Data governance

- Govern how data can be collected, stored, and used
- Example: GDPR governs data usage in the EU
- Use cases *must* adhere to data governance laws



Data ethics

- Ensure data is used with **people** and **society's** best interest in-mind
- Ask whether the use will *negatively* or *positively* impact people



Let's practice!

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Advancements in generative AI

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Curriculum Manager, DataCamp

Coming up...

- What's to come in generative AI?
- What challenges need to be overcome?

Performance improvements

- More human-like content
- Handle more complexity
- Greater reliability

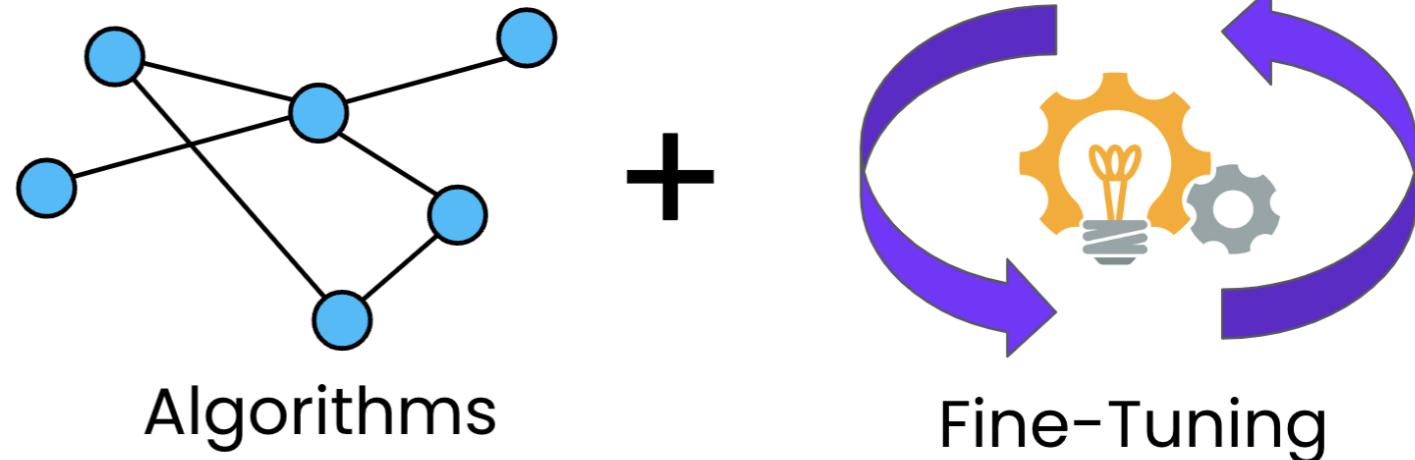
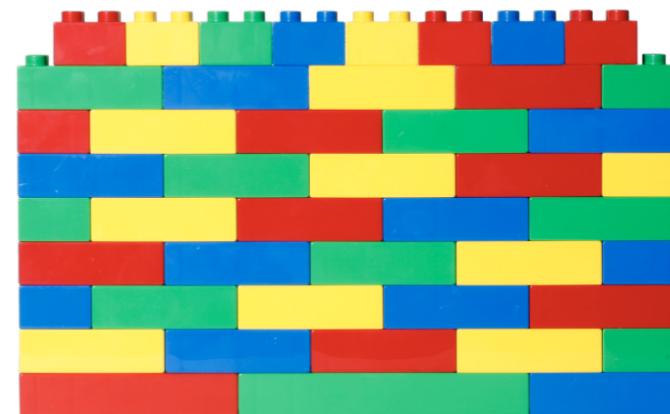


What's driving the improvements?

Large Language Models (LLMs)

- Learns from a huge text dataset
- Algorithms detect patterns in text
- Fine-tune the model by rating responses

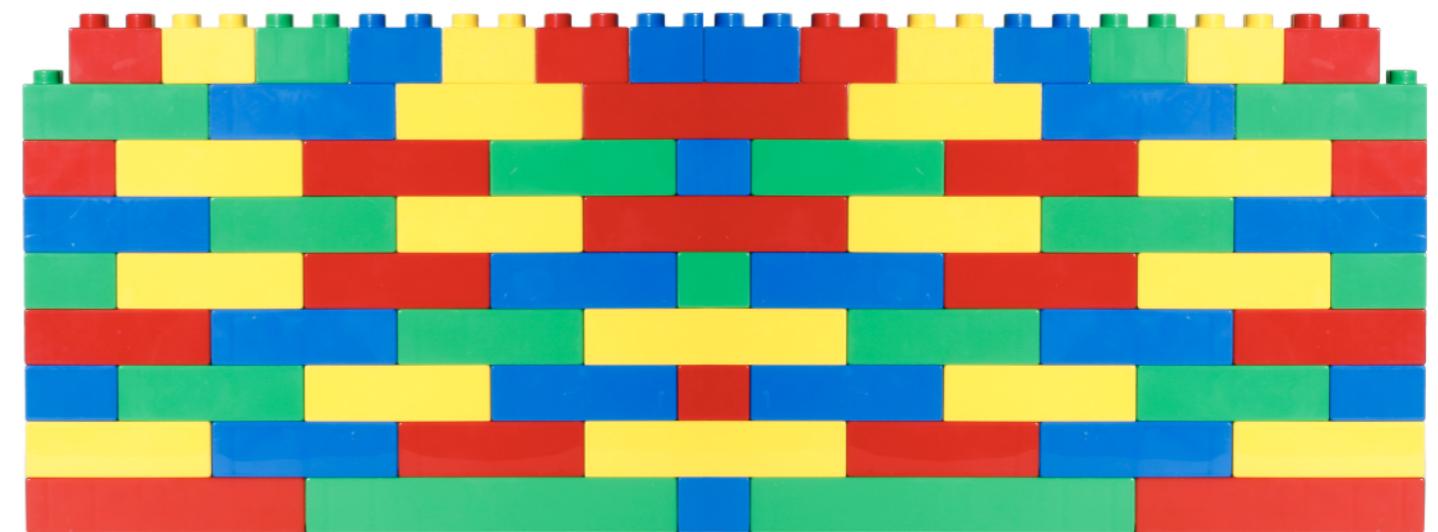
Training Data



What's driving the improvements?

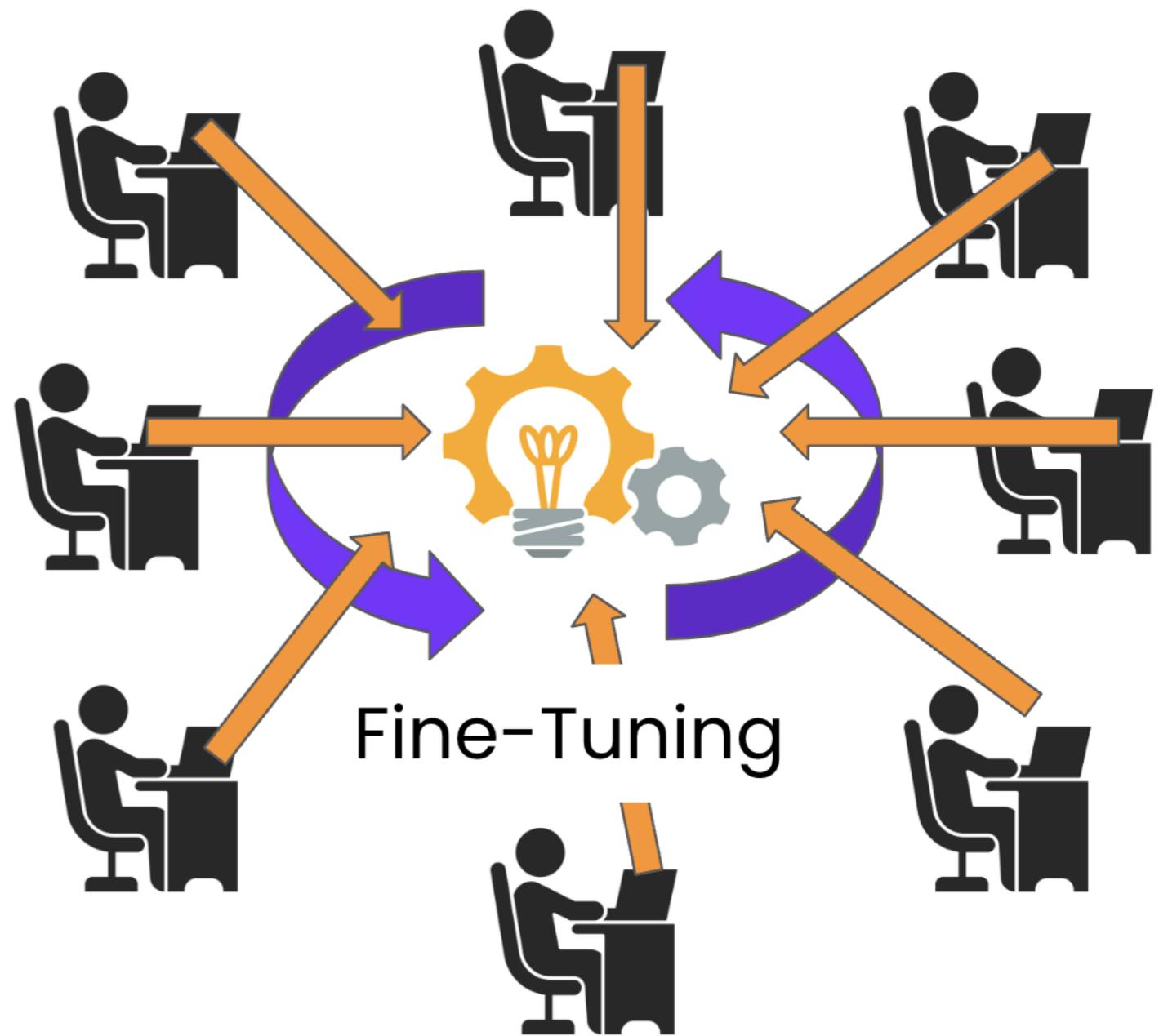
- Amount of training data will increase

Training Data



What's driving the improvements?

- Amount of training data will increase
- Usage data will help in fine-tuning



Building balanced datasets

Challenge: Ensuring data is high quality and balanced

- Quantity of data makes detecting bias prior to training difficult

Goal: Develop more robust bias mitigation procedures



BIAS

Opportunities for misuse

- Misrepresenting AI-generated content
- Creating malicious content (e.g., spam)

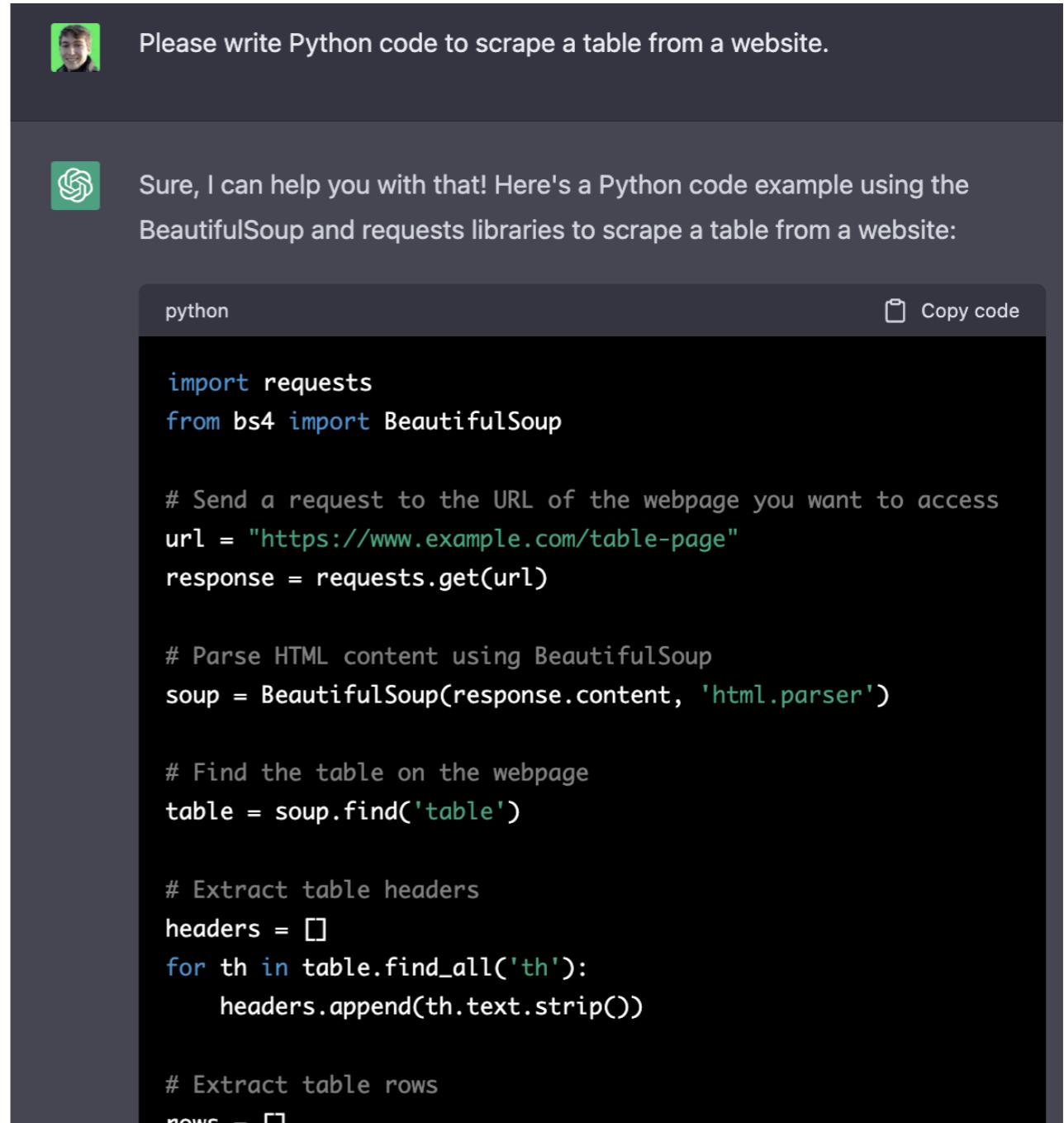
Intervention by lawmakers:

- Regulations could help or hinder AI advancement



From generalized to specialized

- ChatGPT is a *generalizable* model
- Generative AI models will become more *specialized*
- Example: a model specifically designed to write long and complex code



Please write Python code to scrape a table from a website.

Sure, I can help you with that! Here's a Python code example using the BeautifulSoup and requests libraries to scrape a table from a website:

```
python
import requests
from bs4 import BeautifulSoup

# Send a request to the URL of the webpage you want to access
url = "https://www.example.com/table-page"
response = requests.get(url)

# Parse HTML content using BeautifulSoup
soup = BeautifulSoup(response.content, 'html.parser')

# Find the table on the webpage
table = soup.find('table')

# Extract table headers
headers = []
for th in table.find_all('th'):
    headers.append(th.text.strip())

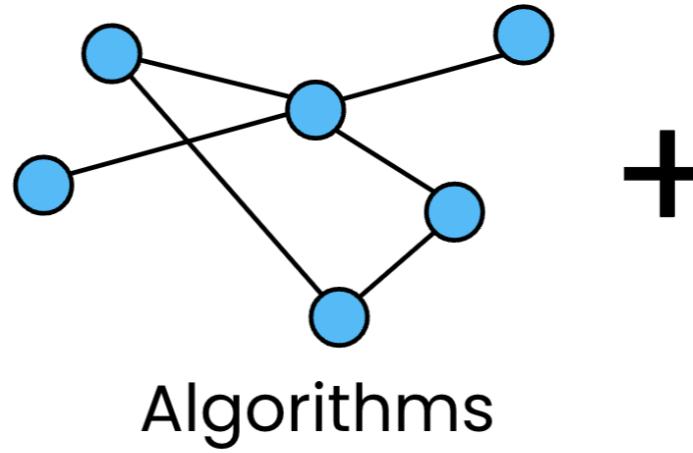
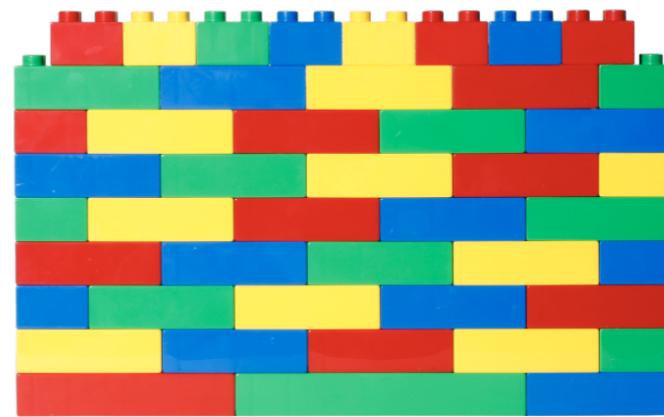
# Extract table rows
rows = []
```

Copy code

Other types of generative AI

- Image
- Audio
- Video!

Training Data



AI for everyone!

- **Accessibility** is key to ChatGPT's success
- **Democratization** of AI tools
 - Everyone should benefit from the technology



Let's practice!

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Congratulations!

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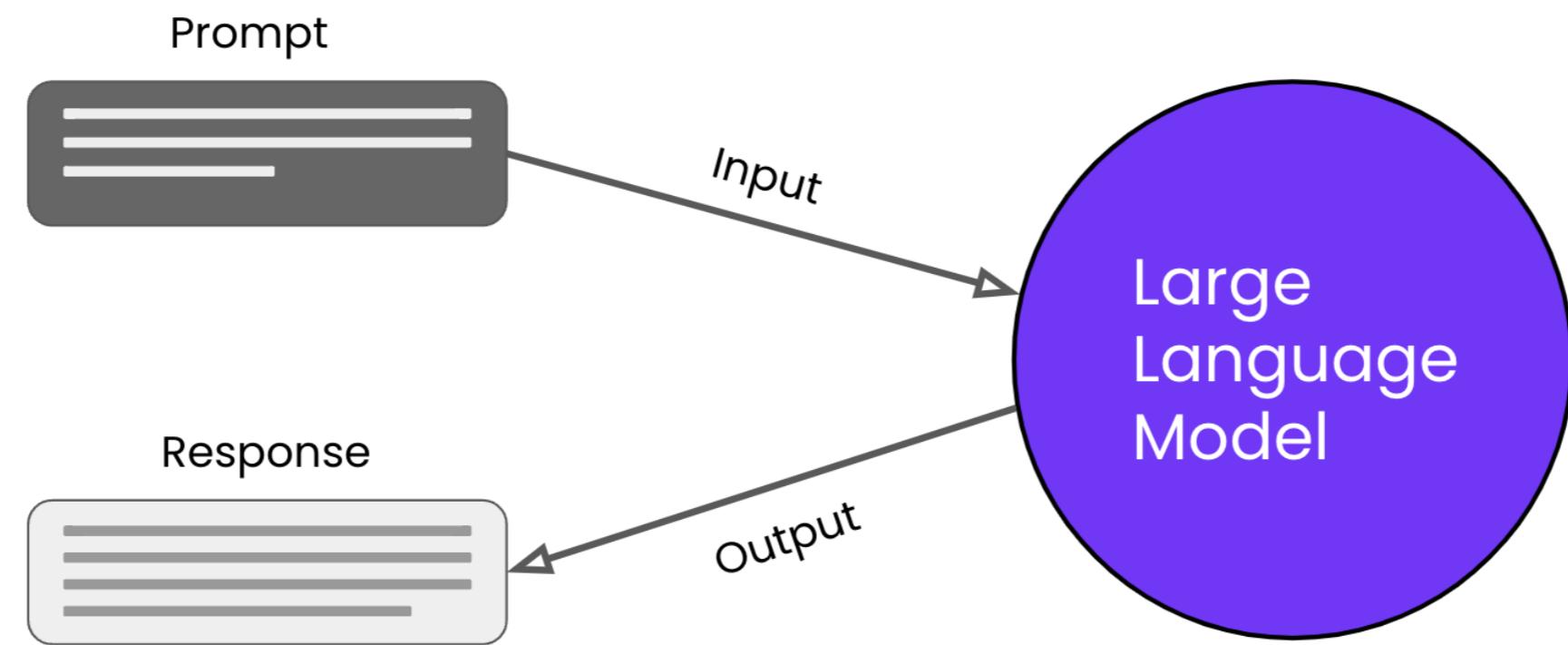


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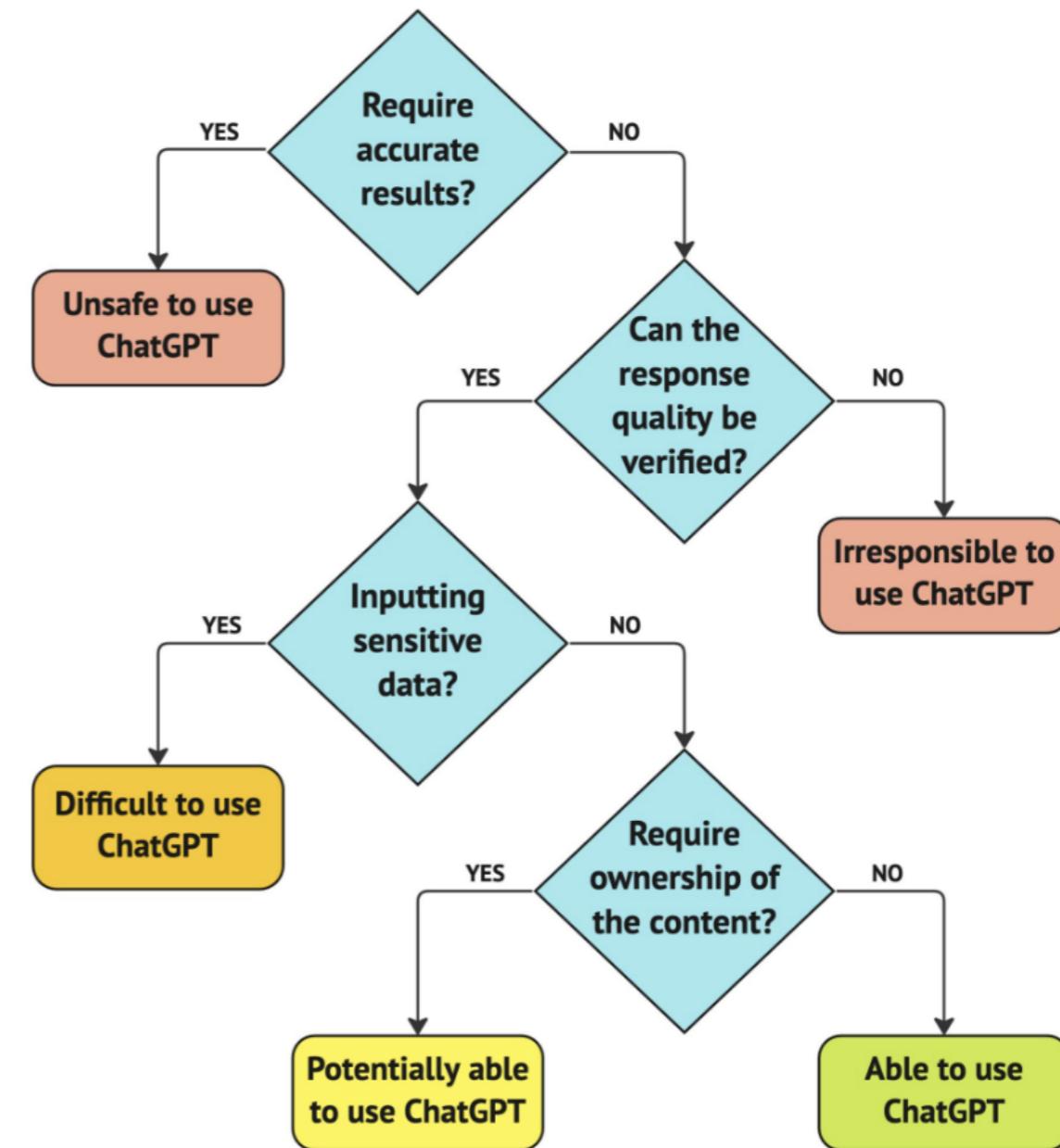
Chapter 1 - Interacting with ChatGPT

- What can ChatGPT do?
- What are its limitations?
- How to write effective prompts → *prompt engineering*



Chapter 2 - Adopting ChatGPT

- Augmenting business workflows
- Identifying appropriate use cases
- Legal and ethical considerations
- The future of generative AI



Congratulations!

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