

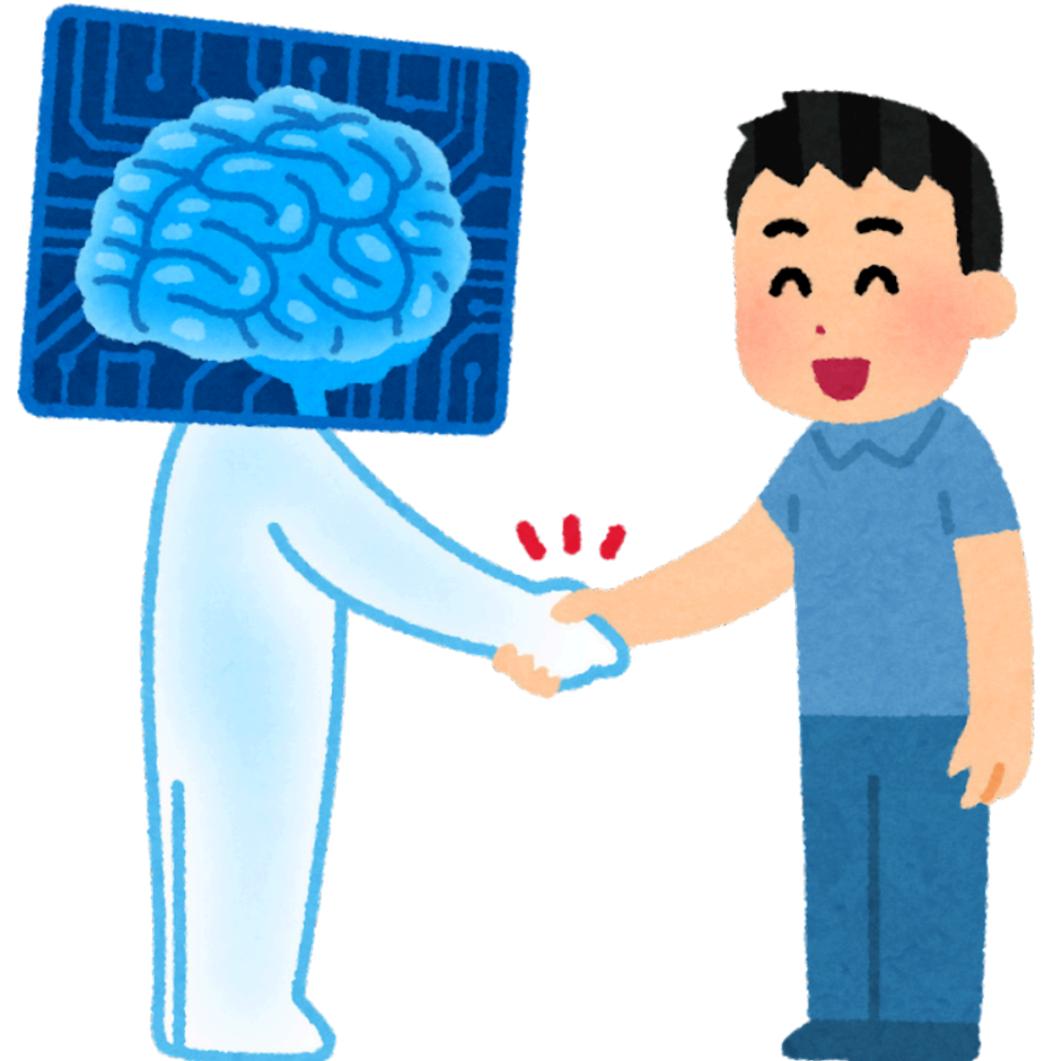


PROMPT ENGINEERING

WWW.AISCIENCES.IO



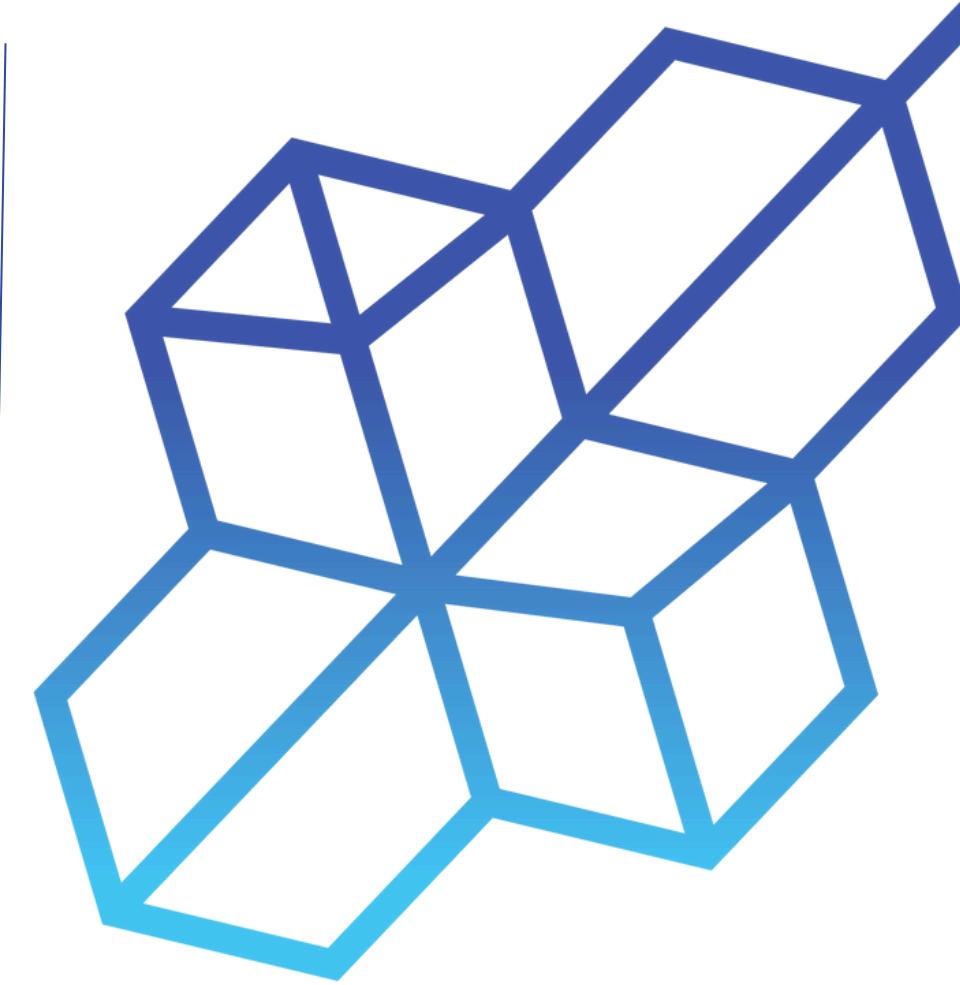
INSTRUCTOR: FIZZA FAWAD



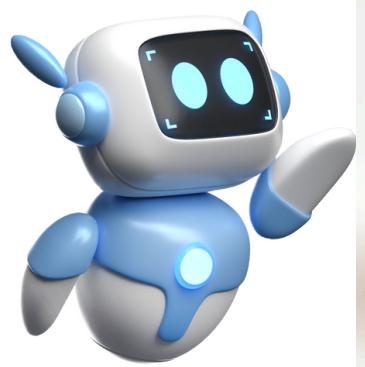
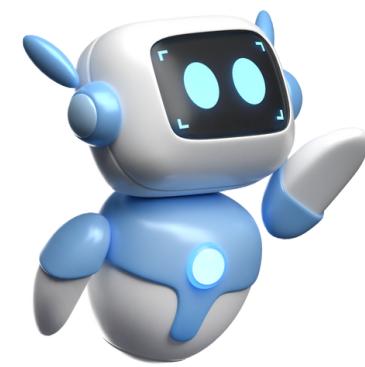
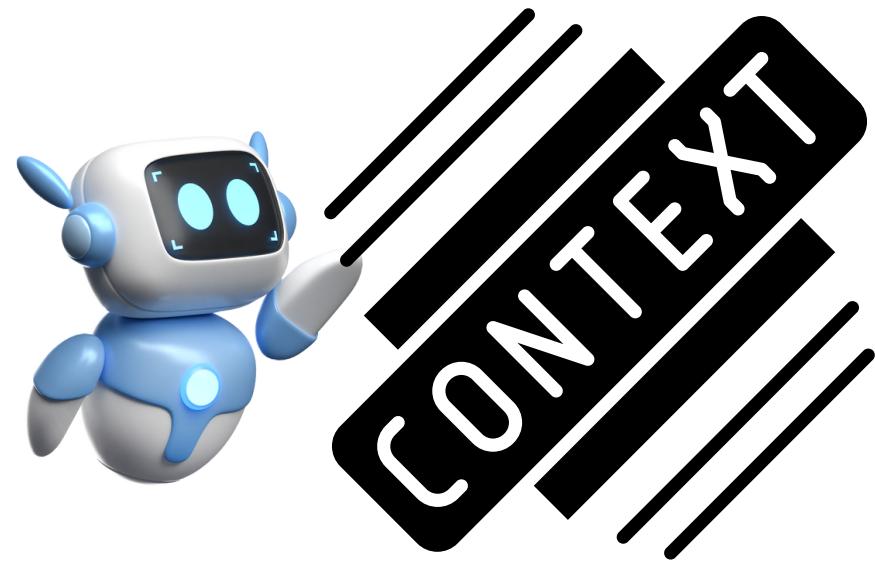
WHAT IS A PROMPT?



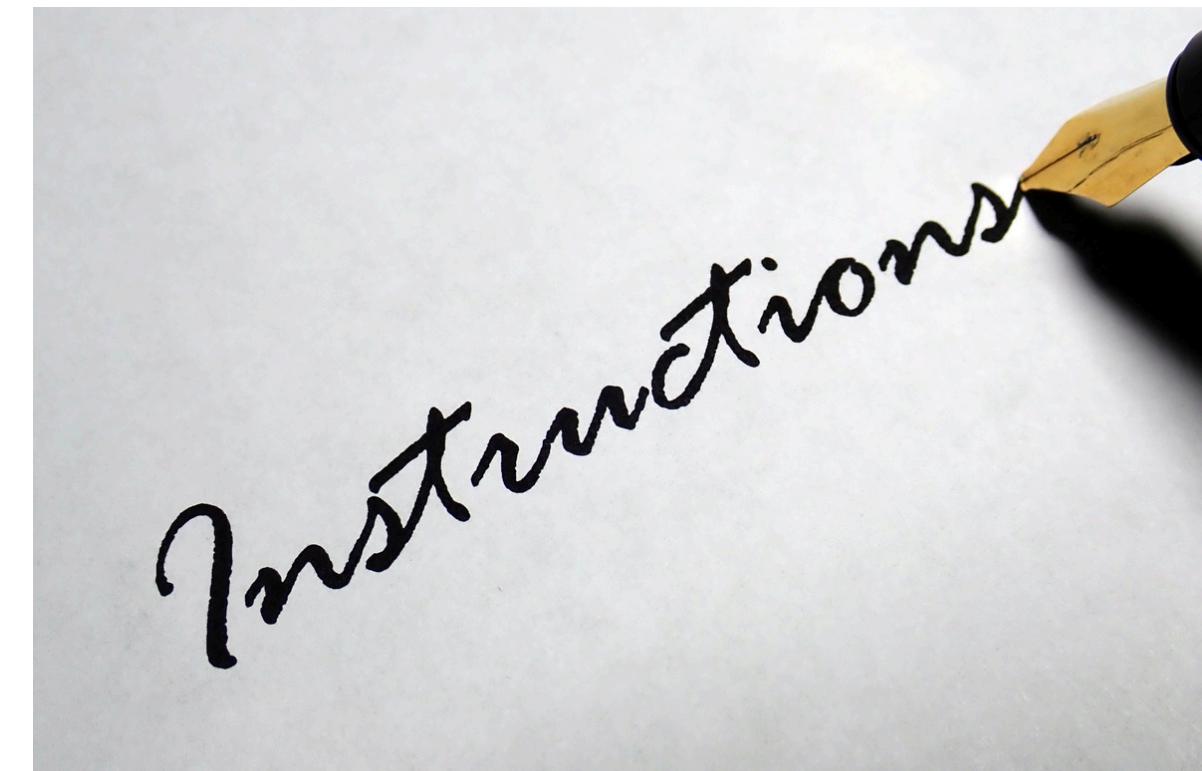
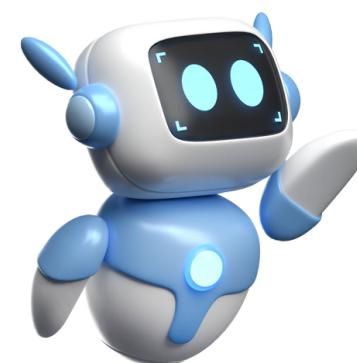
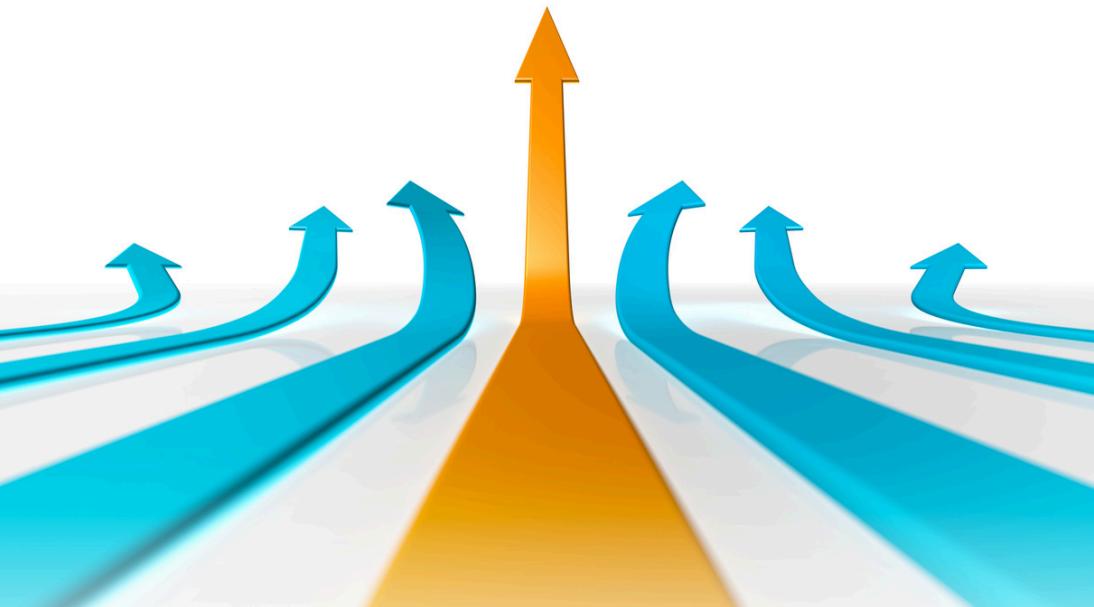
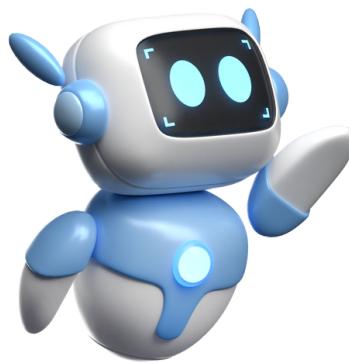
THE INPUT YOU GIVE TO A MODEL TO GET A
RESPONSE.



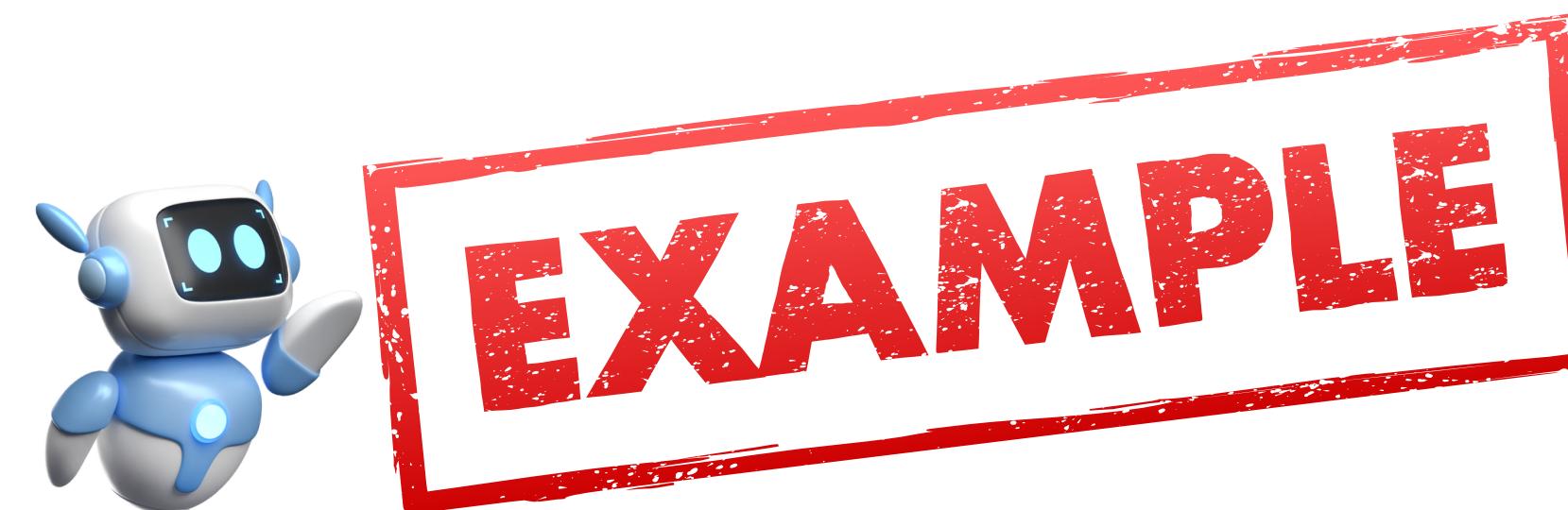
KEY CONCEPTS



COMPONENTS OF A PROMPT



KEY PRINCIPLES OF PROMPT ENGINEERING

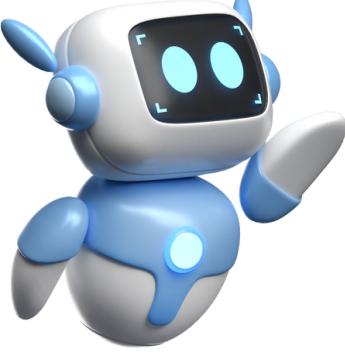


EXAMPLE

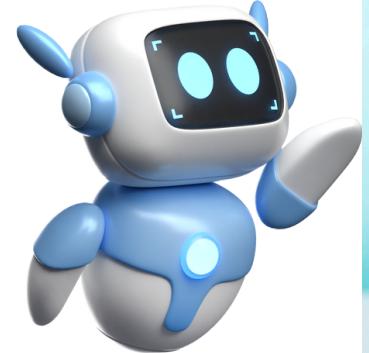
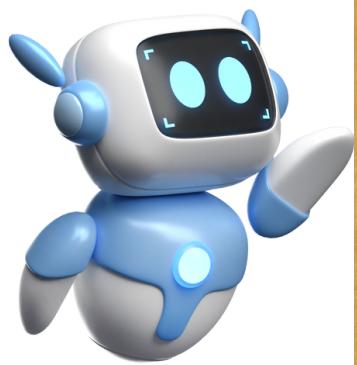


"CAN YOU PROVIDE A RECIPE FOR A VEGAN CHOCOLATE CAKE? IT SHOULD BE EASY TO FOLLOW AND USE COMMON INGREDIENTS. FOR EXAMPLE, IT SHOULD INCLUDE STEPS LIKE MIXING THE BATTER AND BAKING IT IN AN OVEN."

WHAT TO AVOID?



WHAT TO AVOID?

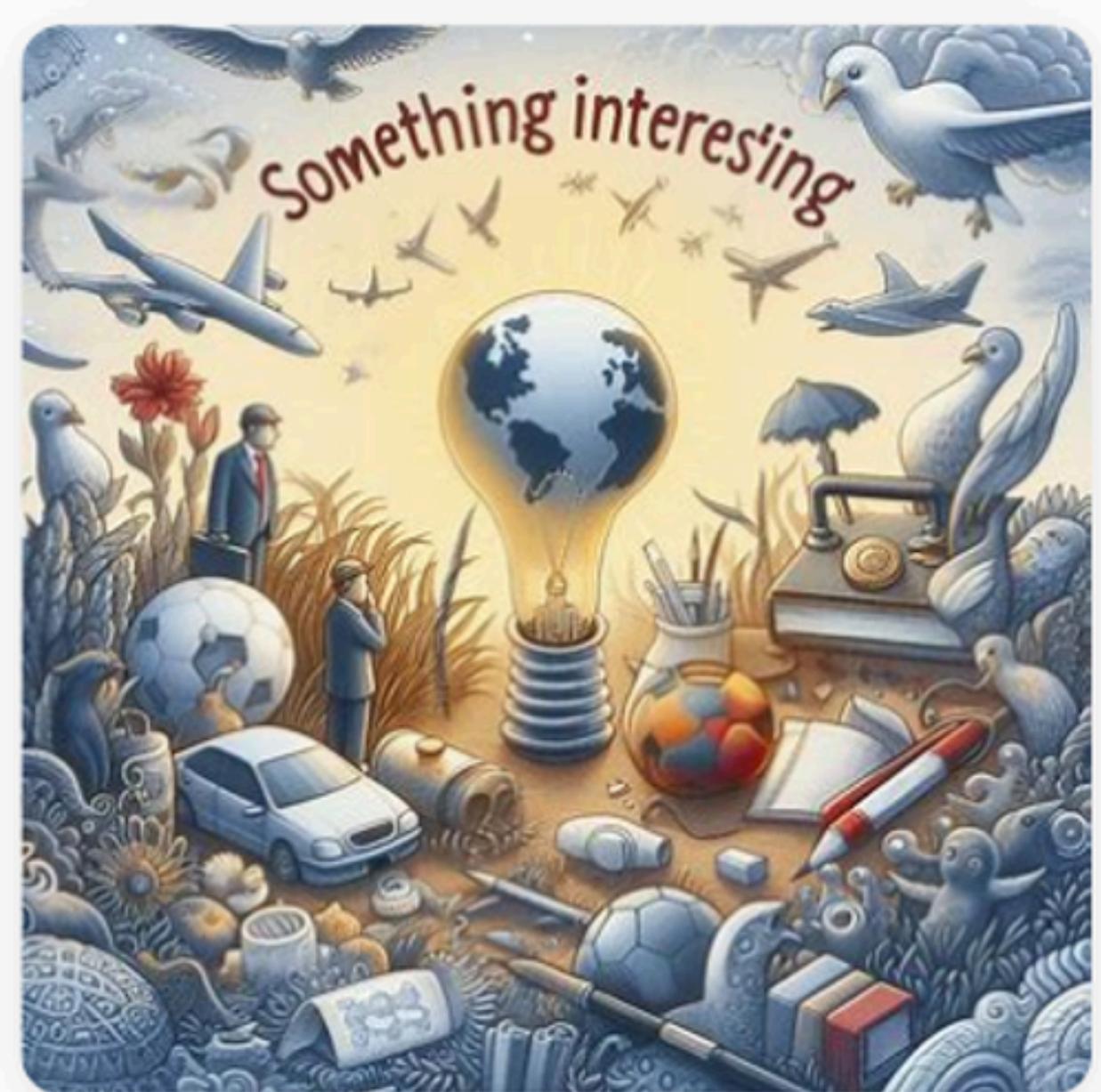


GENERAL PRINCIPLES OF CRAFTING PROMPTS

BE CLEAR AND SPECIFIC

RESULTS

Bad Prompt



Good Prompt





GENERAL PRINCIPLES OF CRAFTING PROMPTS



PROVIDE CONTEXT

RESULTS

Bad Prompt

Sure, what would you like me to code for you? If you have a specific task or problem in mind, please provide more details. For example, I can help with:

- A simple Python script
- A web scraping script
- Data analysis with Python
- A basic web application
- A small game
- Algorithms or data structures

Good Prompt

```
def fibonacci(n):
    """
    Calculate the Fibonacci sequence up to n terms.

    Parameters:
    n (int): The number of terms in the Fibonacci sequence to calculate.

    Returns:
    list: A list containing the Fibonacci sequence up to n terms.
    """
    if n <= 0:
        return []
    elif n == 1:
        return [0]
    elif n == 2:
        return [0, 1]

    sequence = [0, 1]
    for i in range(2, n):
        next_term = sequence[-1] + sequence[-2]
        sequence.append(next_term)

    return sequence

# Example usage
num_terms = 10
fib_sequence = fibonacci(num_terms)
print(f"The first {num_terms} terms of the Fibonacci sequence are: {fib_sequence}")
```



GENERAL PRINCIPLES OF CRAFTING PROMPTS



SIMPLICITY

RESULTS

Bad Prompt

Global warming refers to the long-term increase in Earth's average surface temperature due to human activities, primarily the emission of greenhouse gases. It is a major aspect of climate change and has widespread implications for the planet's climate systems, ecosystems, and human societies. Here's a detailed discussion on global warming:

1. Causes of Global Warming

Greenhouse Gas Emissions

- **Carbon Dioxide (CO₂):** The burning of fossil fuels (coal, oil, and natural gas) for energy and transportation is the largest source of CO₂ emissions.
- **Methane (CH₄):** Emitted from agricultural practices (especially rice paddies and livestock), landfills, and the production and transport of coal, oil, and natural gas.
- **Nitrous Oxide (N₂O):** Released from agricultural and industrial activities, as well as combustion of fossil fuels and biomass.



Climate change has a profound impact on polar ice caps, leading to significant environmental, ecological, and socio-economic consequences. Here are the key points outlining these impacts:

1. Melting of Ice Caps

- **Rising Temperatures:** Global warming, driven by increased greenhouse gas emissions, leads to rising temperatures. This accelerates the melting of polar ice caps in both the Arctic and Antarctic regions.
- **Sea Level Rise:** Melting ice contributes to rising sea levels, which can inundate coastal communities and lead to habitat loss for both humans and wildlife.

2. Loss of Habitat

- **Wildlife Impact:** Many species, such as polar bears, seals, and penguins, depend on ice-covered regions for their habitat. The loss of ice di  pts their natural habitat, affecting their ability to hunt, breed, and survive.

Good Prompt

GENERAL PRINCIPLES OF CRAFTING PROMPTS

RELEVANCE

RESULTS

Bad Prompt



Artificial Intelligence (AI) refers to the simulation of human intelligence processes by machines, particularly computer systems. It involves the development of algorithms and models that enable computers to perform tasks that typically require human intelligence. AI encompasses a wide range of techniques, approaches, and applications, and it continues to evolve rapidly.

Core Concepts of AI:

1. Machine Learning (ML):

- ML is a subset of AI that focuses on enabling machines to learn from data and improve over time without being explicitly programmed.
- It involves algorithms that identify patterns, make predictions, or take actions based on input data.



Good Prompt



AI tools for content creation have become increasingly sophisticated, offering various functionalities: from text generation to image creation and video editing. Here are some highly recommended AI tools for different aspects of content creation:

Text Generation

1. OpenAI's GPT-4

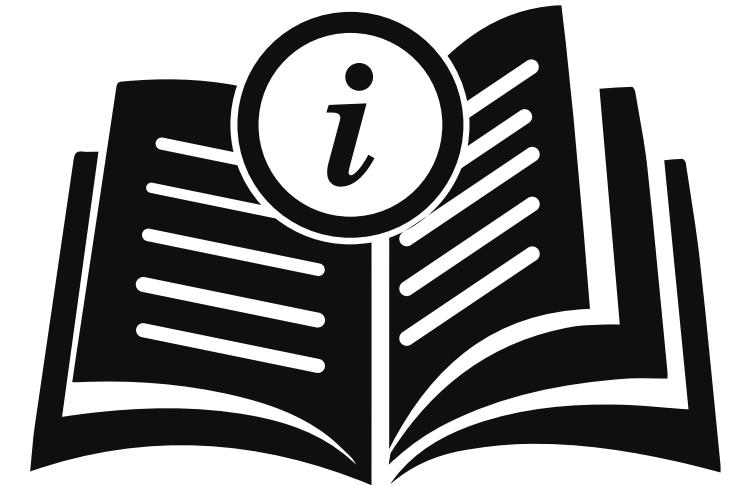
- **Features:** Generates human-like text, answers questions, writes essays, composes emails, and more.
- **Use Cases:** Blogging, article writing, social media content, email drafting.
- **Access:** OpenAI API, integrated into platforms like ChatGPT.

2. Jasper (formerly Jarvis)

- **Features:** Tailored for marketing copy, blog posts, product descriptions, and more.

TYPES OF PROMPTS

INFORMATIVE PROMPTS



"What are the health benefits of green tea?"

TYPES OF PROMPTS

CREATIVE PROMPTS



"Write a short story about a dragon who can't breathe fire."



TYPES OF PROMPTS

INSTRUCTIONAL PROMPTS



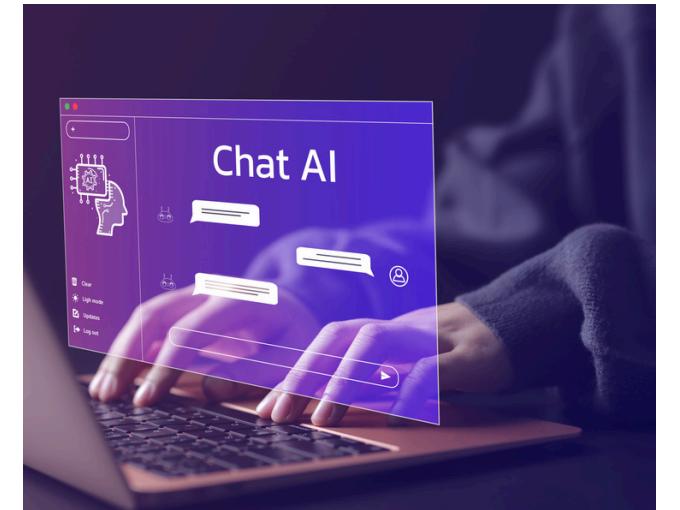
"Give me a step-by-step guide on how to change a car tire."

TYPES OF PROMPTS

CONVERSATIONAL PROMPTS



"Pretend you are a customer service agent helping someone return an item."



TYPES OF PROMPTS

COMPARATIVE PROMPTS



"Compare the climate of New York City and San Francisco."



TYPES OF PROMPTS

PERSUASIVE PROMPTS



"Write a persuasive essay on why renewable energy is important."

CONTACT US



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