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# What you will learn

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# Prompt engineering

Process of designing effective prompts.



# Prompt engineering

Process of designing effective prompts.

Critical analysis

Creativity

Technical acumen



# Understanding through examples

- Surface wind: SW 18-23 knots
- Waves: SW 10ft.
- Pressure: 1005 mb



# Understanding through examples

- ✖ Weather forecast of the Atlantic Sea



# Understanding through examples

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## Examples

- ✓ The captain of a ship is planning a strategic voyage in the Atlantic Ocean. To help the captain navigate effectively provide weather forecasts for the upcoming week from 28th August 2023 to 1st September 2023. The coordinates of the target location are between 20°N and 30°N latitude and 40°W and 20°W longitude.

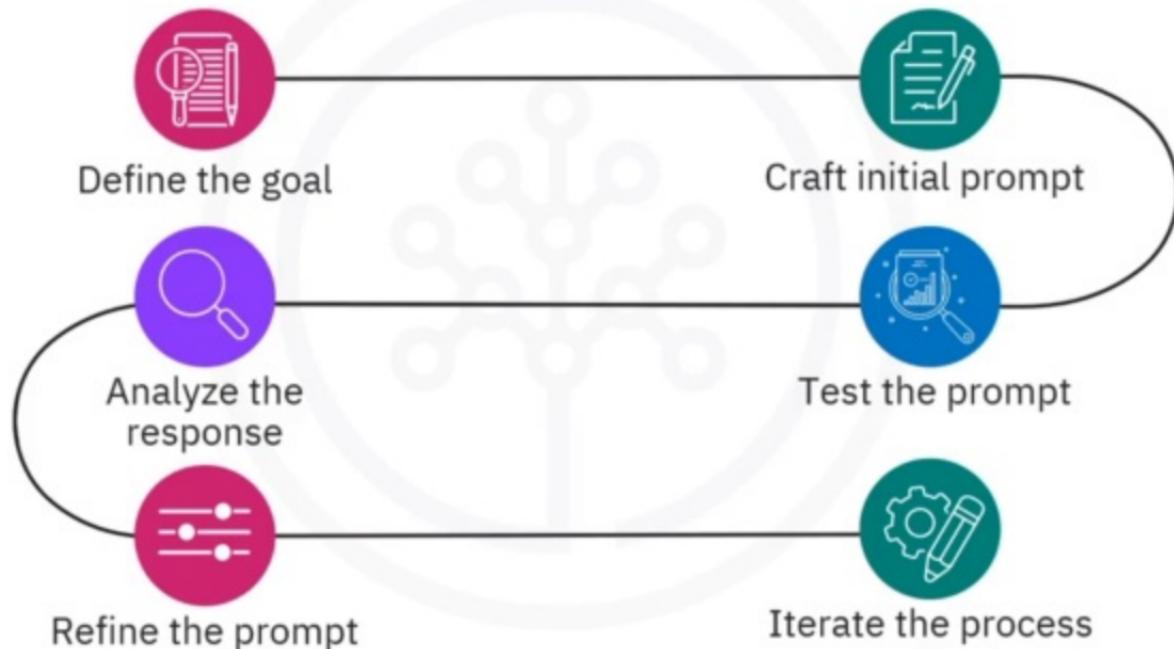
# Understanding through examples

## Examples

- ✓ The captain of a ship is planning a strategic voyage in the Atlantic Ocean. To help the captain navigate effectively provide weather forecasts for the upcoming week from 28th August 2023 to 1st September 2023. The coordinates of the target location are between 20°N and 30°N latitude and 40°W and 20°W longitude.
- ✓ To help plan effective navigation in the Atlantic Ocean, provide detailed information about expected wind patterns, wave heights, precipitation probabilities, cloud cover, and any potential storms that might affect the voyage during a specified timeframe and location

# Process involved in prompt engineering

## Well-structured iterative process



# Process involved in prompt engineering



## Define the goal:

Example: Form a brief overview of the benefits and risks associated with artificial intelligence in automobiles.



## Craft initial prompt

# Process involved in prompt engineering



**Test the prompt**

# Process involved in prompt engineering



## Test the prompt

Example: Write an article that presents a well-rounded analysis of the benefits and drawbacks associated with the incorporation of artificial intelligence in the field of automobile industry.

# Process involved in prompt engineering



**Analyze the response**

# Process involved in prompt engineering



**Refine the prompt**

# Process involved in prompt engineering



## Refine the prompt

Example: Write an informative article discussing the role of artificial intelligence in revolutionizing the automobile industry.

- Address key aspects such as benefits, drawbacks, ethical considerations, and both positive and negative implications.
- Cover specific domains like autonomous driving and real-time traffic analysis, while also examining potential challenges such as technical complexity and cybersecurity concerns.

# Process involved in prompt engineering



## Iterate the process:

Example: Write an article highlighting how artificial intelligence is reshaping the automobile industry focusing on the positive advancements, particularly in autonomous driving and real-time traffic analysis, while thoroughly exploring concerns related to intricate technical aspects such as decision-making algorithms and potential cybersecurity breaches. Emphasize the implications these concerns may have on vehicle safety. Ensure that the analysis is thorough, backed with examples, and encourages critical thinking.

# Importance of prompt engineering

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# Importance of prompt engineering



Optimizing  
model  
efficiency



Boosting  
performance  
for specific  
tasks



Understanding  
model  
constraints

# Recap

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Prompt engineering:



# Recap

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## Prompt engineering:

- Is the process of designing effective prompts
- Is an important method for optimizing model efficiency, boosting performance, understanding model constraints, and enhancing security



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