

# *The Art of Asking AI:*

## *A Guide to Prompt*

### *Engineering*



Gemini



What can I help with?

# Unlocking AI Power: Our Prompt Engineering Roadmap

- **Prompt & Prompt Engineering**
- **Prompting Techniques**
- **Prompt for text, image & code**
- **Assignment**



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# WHAT IS A PROMPT?



A **Prompt** is a **set of instructions** given to AI to get **desired results** as an output.

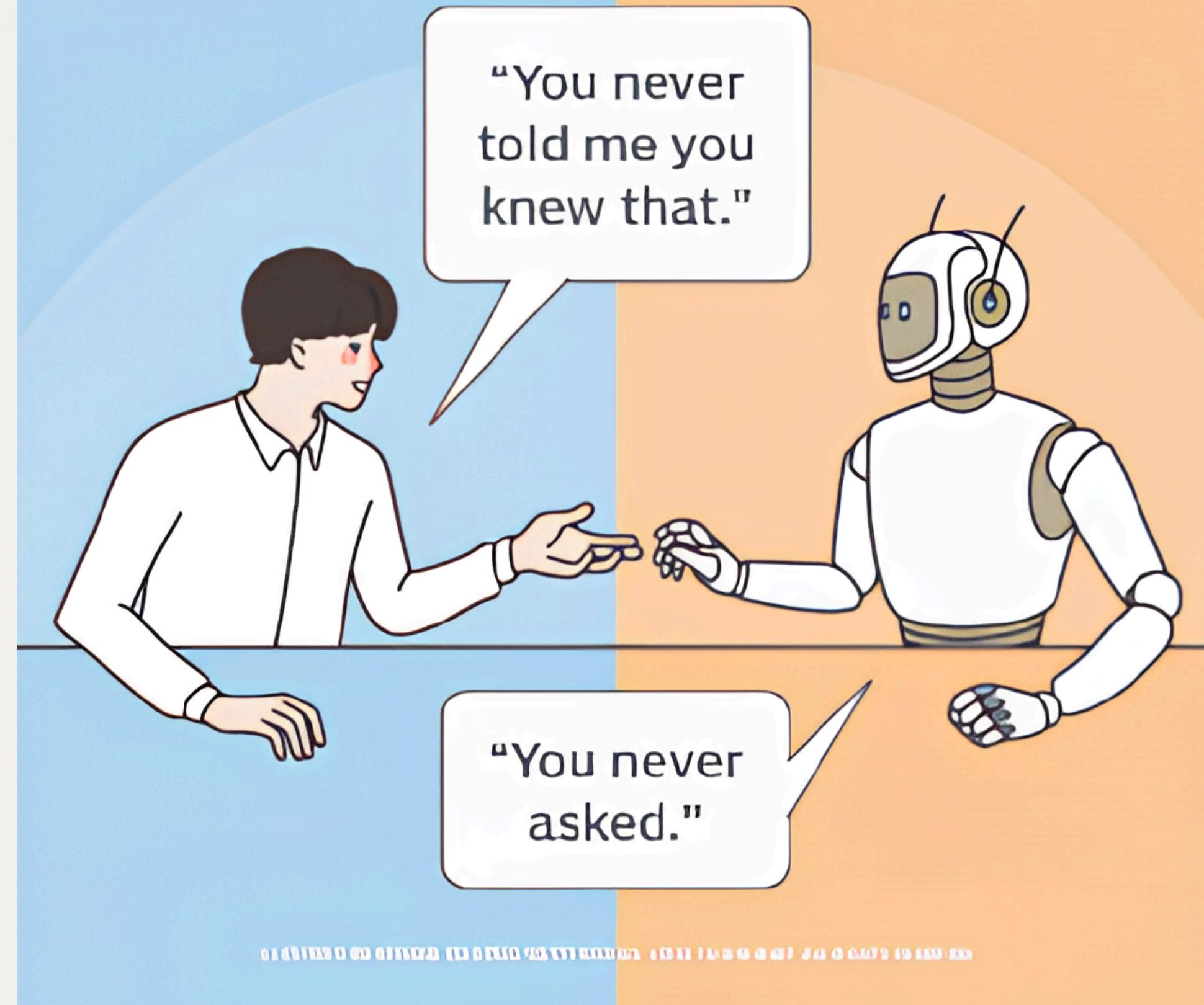
Here is **Aisha**. She is 17 & **fascinated** by AI.

Aisha types :

**“Write a short poem about friendship”**

What are your thoughts on this prompt???

# THE ART OF ASKING AI



# UNDERSTAND THE ANALOGY

## SIMPLE PROMPT ?

“Write a short poem about friendship”

- **Results** : Generic, Needs editing
- **Output**: More Work for you!

## WELL-TAILORED PROMPT

“Write a short, rhyming poem about close friendship, using metaphors of stars and sky, for a 17-year-old girl named Priya.”

- **Results** : Ready to Use, Accurate
- **Output**: Saves your time!



## KEY TAKEAWAYS:

- **Why it matters** : Get exactly what you want from AI.
- **Goal**: Precise prompts = Powerful AI results.

# WHY PROMPTS MATTER?

- **ACCURACY** Clear prompts get accurate results. No more guessing for the AI.  
:
- **CREATIVITY** Good prompts unlock AI's creative potential. They help AI shine.  
:
- **EFFICIENCY**: Fast-track results. Grab quick answers.

# PROMPT ENGINEERING AND ITS MOST WIDELY USED TECHNIQUES

It's the skill of guiding AI by crafting **precise prompts** to get the best possible results.

## Key Techniques:

- ***Zero-shot Prompting***
- ***Few-shot Prompting***
- ***Chain-of-Thought Prompting***

Let us dive deeper into these techniques.....



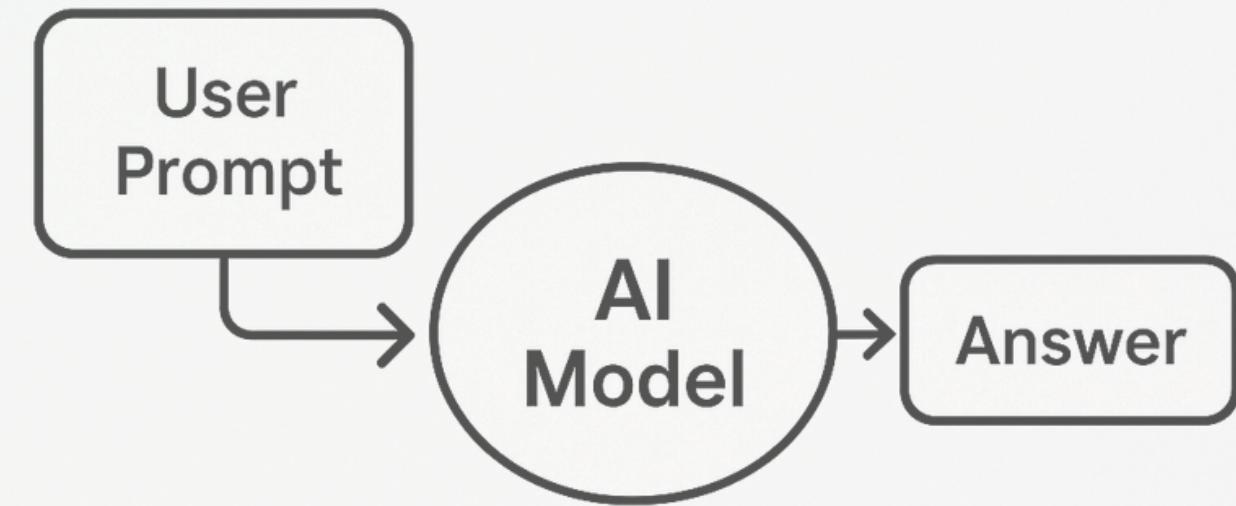
# ZERO SHOT PROMPTING



Giving the AI a task to complete without any prior examples just clear instructions in one go.

- **How it works:** You give the AI a task without any examples.
- **AI's Role:** It uses its vast training to understand and respond.
- **Best for:** Simple, common tasks where AI knows the answer.

## Zero-Shot Prompting



No examples given – just one prompt, one response

**Scenario:**

Ek company chah rahi hai ki unka chatbot English complaints ko Hindi mein translate kare taaki support team jaldi respond kar sake.

**Prompt:**

👉 “*Translate this complaint into Hindi: ‘My internet connection is very slow since yesterday.’*”

**Output:**

→ “*Mera internet connection kal se bahut slow hai.*”

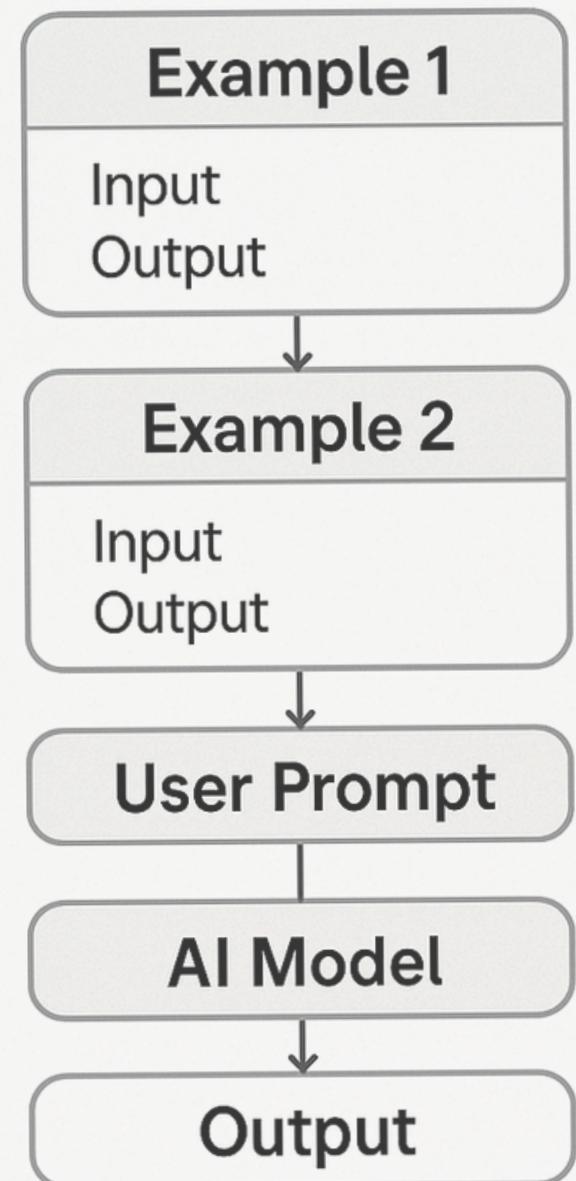
# FEW SHOT PROMPTING



Giving the AI a task along with a few examples so it learns the pattern before completing it.

- **How it Works:** You show the AI a few examples of what you want.
- **AI's Role:** It learns from your examples to complete the task.
- **Best For:** When examples help the AI understand the pattern or format.

## Few-Shot Prompting



**Scenario:**

Ek employee ko apne boss ko polite professional emails likhne mein help chahiye.

**Prompt:**



**Examples:**

1. Informal: "I can't attend today's meeting." → Formal: "I regret to inform you that I will not be able to attend today's meeting."
2. Informal: "Send me the report." → Formal: "Could you please share the report with me at your earliest convenience?"

**Now convert:**

"Sorry, I will be late for office today."

**Output:**

- "I would like to inform you that I will be arriving late to the office today. Apologies for the inconvenience."

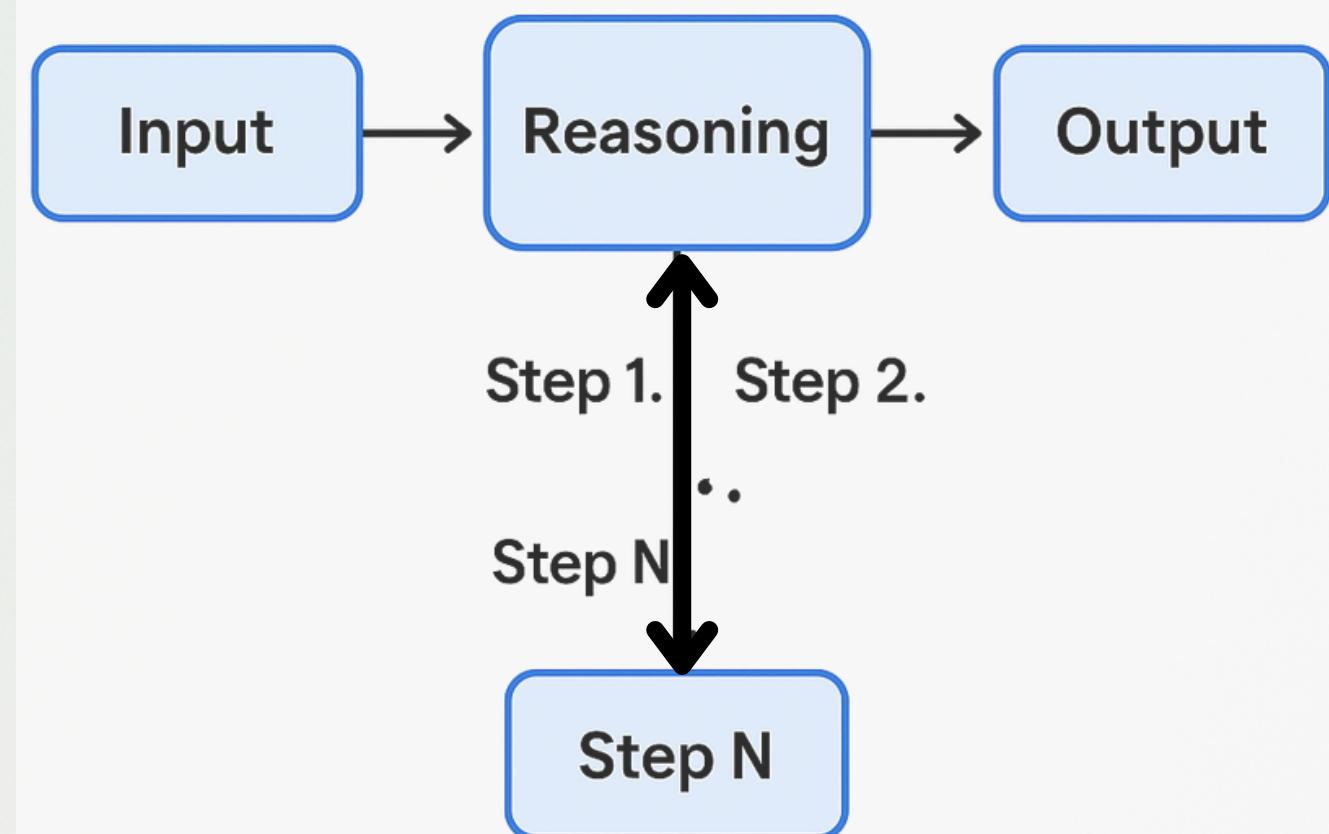
# CHAIN-OF-THOUGHT PROMPTING



Helping the AI think step-by-step by guiding it through reasoning before giving final answer.

- **How it Works:** Ask AI to "think out loud" before answering.
- **AI's Role:** Breaks down problems into logical steps for better answers.
- **Best For:** Complex tasks (math, logic) where showing steps boosts accuracy and understanding.

## Chain-of-Thought Prompting



**Scenario:**

Ek user apna monthly budget calculate karna chahta hai aur AI ko reasoning karne ke liye bolta hai.

**Prompt:**

👉 "My monthly salary is ₹50,000. I spend ₹15,000 on rent, ₹10,000 on groceries, and ₹5,000 on transport.  
How much money will I save monthly? Let's think step by step."

**Output (Step-by-step):**

- Salary = ₹50,000
- Rent = ₹15,000 →  $50,000 - 15,000 = 35,000$
- Groceries = ₹10,000 →  $35,000 - 10,000 = 25,000$
- Transport = ₹5,000 →  $25,000 - 5,000 = 20,000$

**Final Answer:** You will save ₹20,000 per month.

# Components of a Perfect Prompt

## Prompt:

*Solve the math problem step by step.* ←

Task

*You are a helpful math tutor.* ←

Role

*A car travels 90 kilometers at a speed of 30 kilometers per hour.* ←

Context

*Calculate time using distance and speed.* ←

*Show your reasoning clearly in multiple steps before giving the final answer.* ←

Guidelines

*List the number of steps.* ←

Output

***How long does it take?*** ←

Question

# Hands On Project

## Make a Food Ordering Bot :

- **Integrate an LLM:** Connect to a service like ChatGPT, Gemini, or Claude using an API key.
- **Write a prompt:** Craft a clear prompt that instructs the LLM to perform specific tasks, such as creating a menu with different sections, adding items and their descriptions, and assigning prices to each item.
- **Apply prompting techniques:** Zero Shot, Few Shots & Chain of Thoughts Prompting.
- **Build an Interface:** Create a user interface, with a library like Gradio. Simple & Easy