

---

## Lab 2: Prompt Engineering – Types and Examples

### 1. Instructional Prompts

These clearly instruct the AI what to do.

Prompt	Output
<i>Summarize the following paragraph: [text]</i>	Returns a concise summary.
<i>Translate this sentence to French: "I love learning AI."</i>	"J'aime apprendre l'intelligence artificielle."
<i>Write a poem about the ocean in 4 lines.</i>	4-line ocean-themed poem generated.
<i>List 3 benefits of regular exercise.</i>	Clear bullet list of benefits.
<i>Explain the concept of gravity like I'm 10 years old.</i>	Simplified explanation for a child.

---

### 2. Interrogative Prompts

These are questions asked to elicit information or opinions.

Prompt	Output
<i>What is machine learning?</i>	Definition and explanation.
<i>Why is the sky blue?</i>	Scientific explanation involving light scattering.
<i>How does ChatGPT work?</i>	Breakdown of model architecture and training.
<i>What are the uses of AI in healthcare?</i>	Multiple applications listed.
<i>Can AI be creative?</i>	Discusses pros, cons, and examples.

---

### 3. Zero-Shot Prompts

The model is asked to complete a task with **no examples provided**.

Prompt	Output
<i>Classify this sentence: "I hate this product" as positive or negative.</i>	"Negative"
<i>Convert this sentence to passive voice: "The cat chased the mouse."</i>	"The mouse was chased by the cat."
<i>Write a short story about a robot in the future.</i>	Coherent sci-fi story generated.
<i>Correct the grammar: "He go to school every day."</i>	"He goes to school every day."
<i>Summarize this paragraph: [text]</i>	Acceptable summary produced.

---

### 4. Few-Shot Prompts

The model is given **1–3 examples** to learn from before completing a similar task.

Prompt	Output
*Translate to French: "Hello" → "Bonjour"	
"Goodbye" → "Au revoir"	
"Thank you" → *	"Merci"
*Correct grammar:	
"Me is happy." → "I am happy."	
"They is running." → *	"They are running."
*Classify sentiment:	
"I love this movie." → Positive	

“This is awful.” →\*

“Negative”

\*Summarize:

“Cats are independent animals...” → “Cats are self-reliant.”

“Dogs need more attention...” →\*

“Dogs are needy.”

\*Create a synonym:

“Fast” → “Quick”

“Big” →\*

“Large”

---

## Comparison Table

Type	Context Given	Accuracy	Flexibility	Use Case
Instructional	Explicit instruction	High	Medium	Clear tasks (writing, listing, translating)
Interrogative	Question format	Medium	High	Seeking info or explanation
Zero-shot	No examples	Medium	High	Quick, general tasks
Few-shot	1–3 examples provided	High	High	Complex or nuanced tasks needing pattern learning

---