

Prompt Engineering Cheat Sheet

Designing inputs (prompts) to optimize outputs from Al models like ChatGPT. Benefit Description Limitation Description Better Well-crafted prompts produce more relevant and Accuracy Feeder Well-crafted prompts produce more relevant and Accuracy Frial-and-Error Often requires iteration to find the Needed Be specific: Avoid vague instructions. Improved Reduces the need for repeated refinement or trial- Efficiency Lack of May produce inconsistent results P Be clear: Simple, direct language works best. Flexible Control Allows customization of Al behavior and tone. Misunderstood Misunderstood Al might misinterpret vague or an Control Task I have a Befine exempts haved on exemptes. Improved Enables a single model to perform various tasks Model Cannot force the Al to go beyond Involved Knowledge.	e best
AI models like ChatGPT. Better Well-crafted prompts produce more relevant and precise answers. Trial-and-Error Often requires iteration to find the phrasing. Improved Reduces the need for repeated refinement or trial-Efficiency and-error. Lack of May produce inconsistent results Be clear: Simple, direct language works best. Flexible Allows customization of AI behavior and tone. Misunderstood All might misinterpret vague or ar Task Enables a single model to perform various tasks Model Cannot force the AI to go beyond Wersatility (summarization, translation, etc.). Model Cannot force the AI to go beyond	e best
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Add context: Include background or examples. Versatility (summarization, translation, etc.). Boundaries knowledge.	ite training
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interate: Renne prompts based on outputs. [No code Non-technical users can optimize output without Data Sensitivity Can unintentionally leak sensitive	data if not
What is a Prompt + General Prompt Format Required programming. Issues crafted carefully.	
A prompt is a set of instructions, questions, or examples given to an AI model to guide its response or output. Here's a simple, flexible format to Alto a simple format to a simple flexible flexible format to a simple flexible flexible flexible format to a simple flexible flexi	puts.
design effective prompts: Example: Types of Prompt Engineering	
✓ [Role/Context] You are a ← Role/Context Prompt Type Description Example	
✓ [Instruction/Task] cybersecurity expert. Zero-shot No examples provided; relies on model's general ability. "Translate 'Hello' to Spanish."	
 [Input Data (optional)] Explain phishing in simple terms Explain phishing in simple terms Cone-shot One example is given to guide the model. "Translate 'Hello' to Spanish: Hola. Translate 'to Spanish." 	e 'Goodbye'
✓ [Output Format (optional)] Use bullet points. ← Output Format Few-shot Multiple examples included to show pattern. "Translate: 'Hello' → Hola, 'Thanks' → Graction of the state	ias, 'Please'
Common Use Cases Instruction-based Direct command or task in the prompt. "Summarize the paragraph in 2 lines."	
TaskPrompt ExampleChain-of-ThoughtPrompt asks the model to explain its reasoning step-by- step.Solve the math problem step-by-step: 23	+ 47 ="
Summarization "Summarize this news article in 3 bullet points." Contextual Includes background/context to guide the answer. "Given this resume, write a professional bi	o."
Translation "Translate the following to French: 'Good morning.'" Role-based Assigns a specific role or persona to the model. "You are a doctor. Explain flu symptoms to	a patient."
Coding "Write a Python function to reverse a string." Ask the model to evaluate or improve its previous answer. "Recheck and improve your previous responses	nse."
Role-play "Act as a cybersecurity expert. Explain phishing." Multimodal Combines text with images or other inputs.	(for
Brainstorming "List 10 creative blog ideas for AI in healthcare." prompting multimodal models)	