

Preventing AI Hallucinations with Effective User Prompts

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WHAT?

AI hallucinations occurs when an LLM generates information that is not based on real-world facts or evidence. This can include fictional events, incorrect data or irrelevant outputs.

WHY?

Learn to create effective prompts that can help AI generate accurate and reliable content.

EFFORT

Less than 15 minutes of reading.

1 What causes AI hallucinations?

- **Ambiguous prompts.** Vague queries can lead to random or inaccurate answers.
- **Lack of clear context.** When the language model lacks context, it can fabricate answers.
- **Long generation length.** The longer the generated response, the higher the chance that hallucinations can happen.
- **No retrieval-augmented process.** LLMs without access to external sources—such as databases or search engines—can produce errors when they need to generate specific information.

2 How can I prevent AI from generating hallucinations?

2.1 Set clear expectations

The clearer the prompt, the less the LLM relies on assumptions or creativity. A well-defined prompt guides the model toward specific information, reducing the likelihood of hallucinations.

TECHNIQUES:

- Use **specific language** that guides the model.
- Focus on **known data sources** or real events.
- Request **summaries** or *paraphrasing* from established sources.

EXAMPLE

- **Ambiguous prompt:**“Tell me about space.”
- **Clearer prompt:**“Give me a summary of NASA’s recent Mars missions, including factual details from their official reports.”

EXAMPLE

- **Ambiguous prompt:**“What is quantum computing?”
- **Clearer prompt:**“Explain the basic principles of quantum computing, specifically how qubits work compared to classical bits.”

2.2 Break down complex prompts

Break down complex or broad prompts into manageable pieces. This keeps the language model focused on a narrower scope and reduces the chance of hallucination.

EXAMPLE

- **Complex query:**“Explain AI and how it can change the world.”
- **Broken down prompt:**“What are the most recent advancements in AI? How are these advancements being applied in the healthcare industry?”

2.3 Use retrieval-augmented generation (RAG)

When crafting prompts, encourage the model to retrieve relevant information instead of generating from scratch. Integrating a RAG system allows the LLM to query a specific database or resource.

TECHNIQUES

- Include context cues, for example, “Based on the following document” or “From the official Web site” to point the model toward facts.
- If using a tool like Milvus or ChromaDB, structure your prompt to refer to specific collections or documents. This reduces hallucination by grounding the LLM in real data.

EXAMPLE

- **Prompt without RAG:**“Tell me about the company’s AI products.”
- **Prompt with RAG:**“Based on the ``technical-info” collection in Milvus, provide details about the company’s AI product line.”

2.4 Constrain the output

Limit the length or scope of the language model's response. Shorter, more direct answers reduce the chances of the model drifting off-topic or hallucinating extra details.

TECHNIQUE

- Use *tokens* or *word limits* where possible to enforce the output length.

EXAMPLE

- **Unconstrained prompt:** “Give me a detailed report on quantum mechanics.”
- **Prompt with limited output:** “In 100 words or fewer, explain the main concept of quantum entanglement.”

2.5 Prompt for verification

You can structure prompts to ask the LLM for clarification or to cite the source of its statements. This leads the model to produce more grounded and reliable responses.

EXAMPLES

- “Where did you find this information?”
- “Verify this answer against known historical facts about the event.”

2.6 Use chain-of-thought (CoT) prompting

By guiding the model through logical steps, you can control the reasoning path and help the model arrive at accurate conclusions. This method is especially helpful when asking the model to explain complex processes.

EXAMPLE

- *Step-by-step prompt: *“Explain the following concepts step by step: 1. How do neural networks learn from data? 2. How is backpropagation used in this process?”

2.7 Use templates for complex tasks

For complex tasks, for example, answering requests for proposals or technical questions, templates help provide a structure that minimizes hallucinations. This is achieved by making the desired format and content explicit.

EXAMPLE

- “Based on the document provided, summarize the key technical features of the product. Format the response as: 1. Feature, 2. Benefit, 3. Use case. Use only factual information.”

2.8 For more information

- Find good examples of system prompts in link:<https://documentation.suse.com/suse-ai/1.0/html/AI-system-prompts/index.html>.

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Glossary

AI, artificial intelligence

Refers to the simulation of human intelligence in machines that are designed to learn and solve problems like humans. Enables computers to understand language, make decisions and improve from experience.

Air gap

A security measure where a computer network is physically isolated from unsecured networks, including the public Internet.

Batch size

The number of samples processed simultaneously during model inference, affecting processing speed and resource utilization.

BYOC, bring your own certificate

A practice allowing users to provide their own SSL/TLS certificates for securing communications instead of using default or auto-generated ones.

CA, certification authority

An entity that issues digital certificates to verify the identity of certificate holders and ensure secure communications.

Chain-of-thought (CoT) prompting

A prompting technique that guides AI models to break down complex problems into step-by-step reasoning processes, improving response accuracy and transparency.

Chat template

A structured format for organizing conversations between users and AI models, defining how system prompts, user inputs, and AI responses are formatted and processed.

Context window

The maximum amount of text (tokens) that an AI model can process at once, including both the input prompt and generated response.

CRD, custom resource definitions

Extensions of the Kubernetes API that allow users to define custom resources and their controllers in a Kubernetes cluster.

CUDA, Compute Unified Device Architecture

NVIDIA's parallel computing platform and programming model used to accelerate AI workloads on GPU hardware.

Data leakage

The unintended exposure of sensitive information through AI model responses, potentially compromising data security and privacy.

Embeddings

Numerical representations of data (text, images, etc.) in a high-dimensional space that capture semantic relationships and enable AI models to process information effectively.

Fine-tuning

The process of further training a pre-trained AI model on specific data to adapt it for particular tasks or domains, improving its performance for targeted applications.

GenAI, generative AI

A type of artificial intelligence that can create new content such as text, images or music.

GPU, graphics processing unit

Specialized hardware designed for parallel processing. In AI applications, GPUs accelerate model training and inference tasks.

Hallucination

An AI behavior where the model generates false or unsupported information that appears plausible but has no basis in provided context or real facts.

Helm

A package manager for Kubernetes that helps install and manage applications. Helm uses charts to define, install and upgrade complex Kubernetes applications.

Helm chart

A package format for Kubernetes applications that contains all resource definitions needed to deploy and configure application workloads.

IaC, infrastructure as code

The practice of managing and provisioning infrastructure through machine-readable definition files rather than manual processes.

Inference

The process of using a trained AI model to make predictions or generate outputs based on new input data.

Kubernetes pods

The smallest deployable units in Kubernetes that can host one or more containers, sharing networking and storage resources.

LLM, large language model

An advanced AI model trained on amounts of text data to understand and generate human-like text.
Can perform tasks like translation, summarization and answering questions.

Model weights

The learned parameters of an AI model that determine how it processes inputs and generates outputs.
These weights are adjusted during training to optimize model performance.

NLG, natural language generation

A process of automatically generating human-like text from structured data or other forms of input.
Designed to convert raw data into coherent and meaningful language easily understood by humans.

NLU, natural language understanding

A process AI uses to analyze and understand the meaning of the input query.

NVIDIA GPU driver

Software that enables communication between the operating system and NVIDIA graphics hardware,
essential for GPU-accelerated AI workloads.

NVIDIA GPU Operator

A Kubernetes operator that automates the management of NVIDIA GPUs in container environments,
handling driver deployment, runtime configuration, and monitoring.

Ollama

An open source framework for running and serving AI models locally. Ollama simplifies the process
of downloading, running and managing large language models.

OpenGL

A cross-platform API for rendering 2D and 3D graphics, commonly used in visualization applications
and GPU-accelerated computing.

Prompt Engineering

The practice of crafting effective input queries to AI models to obtain desired and accurate outputs.
Good prompt engineering helps prevent hallucinations and improves response quality.

Prompt injection

A security vulnerability where malicious inputs attempt to override or bypass an AI model's system
prompt or safety constraints.

Quantization

A technique to reduce AI model size and computational requirements by converting model parameters to lower precision formats while maintaining acceptable performance.

RAG, retrieval-augmented generation

A technique that enhances AI responses by retrieving relevant information from a knowledge base before generating answers, improving accuracy and reducing hallucinations.

RBAC, role-based access control

A security model that restricts system access based on roles assigned to users, managing permissions and authorization in Kubernetes clusters.

Semantic search

A search method using AI to understand the meaning and context of queries rather than just matching keywords, enabling more relevant results.

System prompt

Initial instructions given to an AI model that define its behavior, role and response parameters. System prompts help maintain consistent and appropriate AI responses.

Temperature

A parameter controlling the randomness in AI model outputs. Lower values produce more focused and deterministic responses, while higher values increase creativity and variability.

Token

The basic unit of text processing in AI models, representing parts of words, characters or symbols. Models process text by breaking it into tokens for analysis and generation.

Top-K

A parameter that limits token selection during text generation to the K most likely next tokens, helping control output quality and relevance.

Top-P

Also known as nucleus sampling, a parameter that selects from the smallest set of tokens whose cumulative probability exceeds P, providing dynamic control over text generation diversity.

Vector database

A specialized database designed to store and efficiently query high-dimensional vectors that represent data in AI applications, enabling similarity searches and semantic operations.

Vector store

A specialized storage system optimized for managing and querying vector embeddings, essential for semantic search and RAG implementations in AI applications.

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