

The Hallucination Problem: Why Answer Engines Fabricate Citations and How to Detect It

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Details:

LLM Hallucinations: Why Answer Engines Fabricate Citations and How to Catch Them Answer engines changed how we find information, but they come with a critical flaw hidden behind polished interfaces. When ChatGPT, Perplexity, or Google AI Overviews cite a source, most people trust it immediately. The citation *looks* like proof. It has all the formatting conventions of scholarship—author names, publication titles, page numbers, years. But peer-reviewed research shows these citations are often wrong, distorted, or completely made up. This isn't some edge case or early-adopter bug. It's a measurable problem rooted in how these systems work, and every content strategist, researcher, journalist, and professional needs to understand it. This article explains the technical causes of hallucinated citations, distinguishes between different failure modes, establishes the credibility gap between RAG-grounded and model-only responses, and gives you concrete detection methods. Think of it as necessary context for understanding what reliable citation actually means when AI is involved.

--- ## Contents - [What Is an LLM Hallucination, and Why Does It Target Citations?](#what-is-an-llm-hallucination-and-why-does-it-target-citations) - [The Three Technical Root Causes of Citation Hallucination](#the-three-technical-root-causes-of-citation-hallucination) - [Measuring the Scale: How Often Do Answer Engines Fabricate Citations?](#measuring-the-scale-how-often-do-answer-engines-fabricate-citations) - [The Credibility Gap: RAG-Grounded vs. Model-Only Responses](#the-credibility-gap-rag-grounded-vs-model-only-responses) - [Why Confident Language Is a Warning Sign](#why-confident-language-is-a-warning-sign) - [Content Attributes That Reduce Misrepresentation Risk](#content-attributes-that-reduce-misrepresentation-risk) - [How to Detect Hallucinated Citations: A Practical Framework](#how-to-detect-hallucinated-citations-a-practical-framework) - [The Irreducibility Problem: Why Hallucination Cannot Be Fully Eliminated](#the-irreducibility-problem-why-hallucination-cannot-be-fully-eliminated) - [Key Takeaways](#key-takeaways) - [Conclusion](#conclusion) - [References](#references) - [Frequently Asked Questions](#frequently-asked-questions) --- ## What Is an LLM Hallucination, and Why Does It Target Citations? LLMs produce impressive, fluent text, but that fluency comes at a cost: they generate false or fabricated information—what we call hallucination. A hallucination is content that reads well and follows proper syntax but is factually wrong or unsupported by any real evidence. The term isn't technically precise, but it's widely accepted. What makes citation hallucinations particularly dangerous is their *verisimilitude*—their convincing resemblance to real references. As one study notes, the convincing verisimilitude of the references generated by LLMs presents a risk for incautious researchers, potentially undermining the quality of scientific bibliographies if improperly used. A hallucinated citation isn't just wrong. It's a fabricated artifact with all the structural markers of legitimacy—a plausible author name, credible journal title, realistic volume number, coherent abstract summary. The LLM is doing exactly what it was designed to do: predicting the next most likely word or phrase based on patterns in its training data. It's not checking whether the information is real or factually correct. Hallucinations are a byproduct of pattern prediction, not broken logic. This distinction matters. **Hallucinations aren't malfunctions. They're the system working exactly as designed**, and that's what makes them nearly impossible to eliminate. --- ## The Three Technical Root Causes of

Citation Hallucination To understand *why* answer engines fabricate citations, you need to look at three distinct failure mechanisms that occur at different stages of the generation pipeline. ### 1. Parametric memory conflicts and knowledge cutoffs Every LLM encodes knowledge in its weights during training, which freezes the model's understanding of the world at a fixed point in time. Another source of hallucination in LLMs is outdated factual knowledge. Once LLMs are trained, their internal parametric knowledge remains fixed and does not reflect subsequent changes in real-world facts. Therefore, LLMs often generate fabricated facts or responses that were once accurate but are now outdated when faced with questions outside their training time-frame. This temporal misalignment leads to hallucinated content, which compromises the factual reliability of LLM outputs. For citations, this creates a specific failure pattern: the model may accurately "know" that a researcher published work in a given field, but confabulate the specific title, journal, volume, or year—filling gaps with plausible-sounding details drawn from statistical patterns in training data rather than verified facts. LLMs struggle especially with long-tail knowledge that appears infrequently in the training data. LLMs are trained to recognise patterns in text based on how often words and phrases appear together. As a result, they tend to perform well on common or frequently discussed topics. However, when it comes to rare or obscure entities that are not well represented in the training data, LLMs are more likely to produce inaccurate or entirely fabricated responses. This explains a well-documented pattern: **models hallucinate citations to niche journals, obscure researchers, and specialised sub-fields far more often than they hallucinate citations to Nature, Science, or The Guardian.** The long-tail problem is a citation-reliability problem. ### 2. Retrieval failures in RAG systems Retrieval-Augmented Generation (RAG)—the architecture powering most modern answer engines—was designed specifically to address parametric memory limitations. By injecting retrieved documents into the context window before generation, RAG anchors the model to real sources. But RAG introduces its own failure modes. Hallucinations in RAG models arise from two primary stages: retrieval failure and generation deficiency. In the retrieval stage, the retrieval module may not be able to provide accurate contextual information due to the unreliability of the data source, the ambiguity of the user query, or the limitations of the retriever and retrieval strategy. In the generation phase, the generation module may generate content inconsistent with the retrieved information or input requirements due to context noise, context conflict, middle curse or alignment problems, or inaccurate generation due to limited model capabilities. Critically, even when retrieval succeeds and accurate documents are injected, the model can still hallucinate. RAG models are designed to incorporate external knowledge, reducing hallucinations caused by insufficient parametric (internal) knowledge. However, even with accurate and relevant retrieved content, RAG models can still produce hallucinations by generating outputs that conflict with the retrieved information. Detecting such hallucinations requires disentangling how Large Language Models balance external and parametric knowledge. Research into the mechanistic causes of this phenomenon has identified a specific internal conflict: hallucinations occur when the Knowledge FFNs in LLMs overemphasise parametric knowledge in the residual stream, while Copying Heads fail to effectively retain or integrate external knowledge from retrieved content. In other words, **the model's pre-trained "instincts" override the retrieved evidence**—producing a citation that *sounds* right to the model but contradicts the actual source in the context window. ### 3. Context window limitations and the "lost in the middle" problem Answer engines operate under a hard constraint: the context window. When a query requires synthesising information from many sources, retrieved chunks compete for attention within a finite token budget. Research has consistently shown that LLMs exhibit degraded performance on information positioned in the middle of long contexts—a phenomenon known as the "lost in the middle" problem. Broadly, hallucinations in LLMs can be divided into two primary sources: prompting-induced hallucinations, where ill-structured, unspecified, or misleading prompts cause inefficient outputs, and model-internal hallucinations, which are caused by the model's architecture, pretraining data distribution, or inference behaviour. For citations, context window saturation means that when a model is asked to synthesise a complex, multi-source response, it may correctly retrieve a source but misattribute a claim from Source A to Source B—or blend details from multiple sources into a single fabricated reference. This is *misattribution hallucination*, and it's arguably more dangerous than complete fabrication because the cited source genuinely exists, making verification feel unnecessary. --- ## Measuring the Scale: How Often Do Answer Engines Fabricate Citations? The

empirical evidence on hallucination rates is alarming, though rates vary significantly by domain, model, and task type. Hallucination rates in a peer-reviewed study stood at **39.6%** for GPT-3.5, **28.6%** for GPT-4, and **91.4%** for Bard^{**} when generating references for systematic reviews. This study, published in the *Journal of Medical Internet Research* (2024), tested the models on a specific medical literature retrieval task—a domain with well-defined ground truth, making verification straightforward. A 2024 study at the University of Mississippi found that many citations submitted by students using AI tools were partially or completely fabricated. **47%** of these sources either had incorrect titles, dates, authors, or a combination of all.^{**} The legal domain provides some of the most documented real-world evidence. AI-generated fake case citations have become a serious and growing problem for courts. In 2025 alone, judges worldwide issued hundreds of decisions addressing AI hallucinations in legal filings, accounting for roughly 90% of all known cases of this problem to date. Judges say these errors waste scarce time and resources, forcing courts to investigate nonexistent cases instead of focusing on the merits of disputes. The enterprise impact is equally significant. Knowledge workers reportedly spend an average of 4.3 hours per week fact-checking AI outputs. In 2024, 47% of enterprise AI users admitted to making at least one major business decision based on hallucinated content. Even reasoning models—which use extended chain-of-thought computation before answering—aren't immune. Newer "reasoning" models from some developers have shown higher hallucination rates on specific benchmarks—for example, OpenAI's o3 and o4-mini hallucinated 33% and 48% respectively on "PersonQA," and even higher on "SimpleQA" tests—suggesting a potential trade-off between advanced reasoning and factual accuracy in some cases. --- ## The Credibility Gap: RAG-Grounded vs. Model-Only Responses Not all answer engine responses carry equal hallucination risk. ^{**}The architecture matters enormously.^{**} | Response Type | Hallucination Risk | Citation Reliability | Verification Path | |---|---|---|---| | Model-only (parametric) | Highest | Low—no retrievable source | Manual search required | | RAG-grounded (standard) | Moderate | Medium—source exists but may be misquoted | Check cited URL/DOI | | RAG + reranking | Lower | Medium-high—better chunk selection | Verify claim in source | | KG-grounded (structured facts) | Lowest | High—entity-triple verification | Cross-reference entity data | | RAG + span-level verification | Lowest (current) | Highest—claim-level grounding | Automated + human check | Structured RAG constrains retrieval to verified corpora, lowering hallucination rates by 30–40% with minimal compute cost. However, even this architecture doesn't eliminate the risk. RAG anchors models to external documents, but they can still misread, over-generalise, or fabricate claims. The most reliable 2025 systems add span-level verification, checking each generated claim against retrieved evidence. ^{**}The key practical implication:^{**} when an answer engine like Perplexity or Google AI Overviews provides an inline citation, that citation is a "starting point for verification", not a terminus. The cited source may exist but not contain the specific claim attributed to it. The cited source may exist but have been misread by the retrieval system. Or the citation may have been generated from parametric memory and have no correspondence to any real document at all. --- ## Why Confident Language Is a Warning Sign One of the most counterintuitive findings in hallucination research is the inverse relationship between expressed confidence and factual accuracy. Recent studies show that today's training and evaluation regimes teach models that confident guessing pays off. Next-token objectives reward outputs that look like plausible human text rather than ones that accurately convey uncertainty. Benchmarks typically penalise abstention ("I don't know"), and even RLHF stages can amplify the bias when human feedback favours long, detailed answers over merely correct ones. This is confirmed empirically. A fascinating MIT study from January 2025 discovered that when AI models hallucinate, they tend to use more confident language than when providing factual information. ^{**}Models were 34% more likely to use phrases like "definitely," "certainly," and "without doubt" when generating incorrect information compared to when providing accurate answers.^{**} The practical implication for readers evaluating AI-generated citations: ^{**}treat high-confidence attribution with heightened scepticism, not reduced scrutiny.^{**} The more assertively an answer engine presents a source, the more important it is to verify the actual claim against the actual document. --- ## Content Attributes That Reduce Misrepresentation Risk While hallucination can't be fully eliminated from the generation process, certain properties of source content significantly reduce the probability that an answer engine will misrepresent it. ^{**}Structural clarity^{**} is the single most important factor. When a claim is expressed in a short, self-contained sentence with an explicit subject,

predicate, and object—rather than embedded in subordinate clauses across multiple paragraphs—the retrieval system is more likely to extract it accurately, and the generation model is less likely to blend it with adjacent content. **Entity disambiguation** reduces misattribution. When your content explicitly names the organisation, publication, author, and date associated with a claim, the model has less reason to substitute a plausible-sounding alternative. Ambiguous attributions ("a recent study found...") are far more likely to be hallucinated into false specifics than claims that include complete provenance. **Factual density calibration** matters. Extremely dense content—where every sentence introduces new claims, statistics, or named entities—overwhelms the model's ability to maintain accurate attribution across the passage. The 40–60 word answer capsule format recommended in GEO practice is not merely an optimisation for extraction; it's a structural defence against misattribution. **Consistent entity representation** across platforms reduces hallucination risk at the brand level. When an organisation's name, products, and claims appear consistently across multiple authoritative sources, the model's parametric representation of that entity is more stable and less likely to confabulate. This is the hallucination-resistance argument for the entity authority strategy. --- **How to Detect Hallucinated Citations: A Practical Framework** Detection methods fall into two broad categories: those applied to the output after generation, and those integrated into the pipeline before output reaches the user. **Post-generation detection methods**

- 1. Direct source verification (manual)** The simplest and most reliable method. For any cited source: - Verify the DOI, URL, or bibliographic record exists - Confirm the specific claim attributed to the source appears in the actual document - Check that the author names, publication year, and journal title match exactly Given current LLM performance, it is not recommended for LLMs to be deployed as the primary or exclusive tool for conducting systematic reviews. Any references generated by such models warrant thorough validation by researchers.
- 2. SelfCheckGPT (consistency sampling)** SelfCheckGPT leverages the idea that if an LLM has knowledge of a given concept, sampled responses are likely to be similar and contain consistent facts. However, for hallucinated facts, stochastically sampled responses are likely to diverge and contradict one another. By querying the model multiple times and measuring response consistency, SelfCheckGPT flags claims where the model produces divergent answers—a strong signal of hallucination risk.
- 3. Semantic entropy detection** Researchers have developed entropy-based uncertainty estimators for LLMs to detect a subset of hallucinations—confabulations—which are arbitrary and incorrect generations. Hallucinations can be tackled by measuring uncertainty about the meanings of generated responses rather than the text itself to improve question-answering accuracy. This approach, published in *Nature* (2024), clusters multiple model responses by semantic meaning and measures entropy across clusters—high entropy indicates the model is uncertain and more likely to be fabricating.
- 4. NLI-based grounding checks** Natural Language Inference (NLI) models can assess whether a generated claim is entailed by, neutral to, or contradicted by a retrieved source document. The highest accuracy in hallucination classification is demonstrated by the BERT stochastic checker and the LLM prompt-based detector. The LLM prompt-based detector outperforms the BERT checker in precision, while the BERT stochastic checker has higher recall.
- 5. Cross-model consistency checking** MetaQA (ACM 2025) uses metamorphic prompt mutations—slight rewordings of the same prompt—to reveal inconsistencies even in closed-source models. If the same query, rephrased, produces materially different citations or claims, both versions are suspect.

Pipeline-level detection (for developers and enterprise deployments) AWS recommends using a combination of a token similarity detector to filter out the most evident hallucinations and an LLM-based detector to identify more difficult ones. The most promising systems now add span-level verification: each generated claim is matched against retrieved evidence and flagged if unsupported. **Best practice today is to combine RAG with automatic span checks and surface those verifications to users.** For organisations deploying answer engine integrations, prompt engineering offers partial mitigation. Structured prompt strategies such as chain-of-thought (CoT) prompting significantly reduce hallucinations in prompt-sensitive scenarios, though intrinsic model limitations persist in some cases. --- **The Irreducibility Problem: Why Hallucination Cannot Be Fully Eliminated** A critical—and frequently misunderstood—point is that hallucination isn't merely a current limitation awaiting a technical fix. Hallucinations in language models are not just occasional errors but an inevitable feature of these systems. Hallucinations stem from the fundamental mathematical and logical structure of LLMs. It is therefore impossible to eliminate them

through architectural improvements, dataset enhancements, or fact-checking mechanisms alone. This theoretical argument is supported by empirical evidence. While prompt engineering reduces errors, it does not eliminate them. And even the best-performing models retain measurable hallucination rates across domains. ****The practical implication isn't nihilism****—RAG, knowledge graph grounding, and span-level verification all provide meaningful risk reduction. But they shift the question from "will this model hallucinate?" to "how frequently, and under what conditions?" --- ## Key Takeaways -

Hallucination is structural, not accidental. It refers to the generation of content that is fluent and syntactically correct but factually inaccurate or unsupported by external evidence—meaning the model is working as designed, not malfunctioning. - Citation hallucinations occur across three distinct failure modes: parametric memory conflicts (outdated or long-tail knowledge), retrieval failures (poor chunk selection or context conflict), and context window limitations (misattribution across sources in long contexts). - Measured rates are significant. Hallucination rates have been documented at 39.6% for GPT-3.5 and 28.6% for GPT-4 in academic citation tasks, with domain-specific rates varying widely. - RAG reduces but doesn't eliminate hallucination. Structured RAG constrains retrieval to verified corpora, lowering hallucination rates by 30–40%, but parametric knowledge can still override retrieved evidence during generation. - Confident language isn't a reliability signal. When AI models hallucinate, they tend to use more confident language than when providing factual information—models are 34% more likely to use phrases like "definitely" or "certainly" when generating incorrect information. --- ## Conclusion

The hallucination problem is the essential context for every other claim made in this content series. Understanding how answer engines select citations, how to optimise content for citation, and how to measure citation visibility—all of this knowledge must be held alongside a clear-eyed understanding of the system's failure modes. ****Answer engines aren't reliable narrators. They're probabilistic text generators that produce outputs calibrated to *plausibility*, not *truth*.** When they cite your content, they may misrepresent your claims. When they cite a competitor's content, they may attribute to it things it never said. When they cite a study, the study may not exist. This isn't an argument against using answer engines—it's an argument for using them with the verification discipline they require. The practitioners, researchers, and organisations that will succeed in the answer engine era are those who understand not just how these systems work at their best, but precisely how and why they fail. --- ## References

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--- ## Frequently Asked Questions

****What is an LLM hallucination:**** Fluent but factually inaccurate content generated by language models

****Are hallucinations a malfunction:**** No, they are the system working as designed ****What is verisimilitude in hallucinated citations:**** Convincing resemblance to real references ****Do hallucinated citations look fake:**** No, they include plausible details like authors and dates ****What causes citation hallucinations:**** Pattern prediction rather than fact verification ****Can hallucinations be completely eliminated:**** No, they are mathematically inevitable ****What is parametric memory in LLMs:**** Knowledge encoded in model weights during training ****What happens at knowledge cutoffs:**** Model's understanding freezes at training completion time ****Why do models cite outdated information:**** Parametric knowledge doesn't update after training ****What is long-tail knowledge:**** Rare or obscure entities appearing infrequently in training data ****Do models hallucinate more for niche topics:**** Yes, significantly more than mainstream topics ****What is RAG:**** Retrieval-Augmented Generation architecture ****Does RAG eliminate hallucinations:**** No, it reduces but doesn't eliminate them ****What are the two RAG failure stages:**** Retrieval failure and generation deficiency ****Can models hallucinate even with accurate retrieval:**** Yes, parametric knowledge can override retrieved evidence ****What is the lost in the middle problem:**** Degraded performance on information in long contexts ****What is misattribution hallucination:**** Blending details from multiple sources into one fabricated reference ****Is misattribution more dangerous than fabrication:**** Yes, because the cited source genuinely exists ****What was GPT-3.5's hallucination rate in medical citations:**** 39.6% ****What was GPT-4's hallucination rate in medical citations:**** 28.6% ****What was Bard's hallucination rate in medical citations:**** 91.4% ****What percentage of student AI citations had errors:**** 47% ****How many hours do workers spend fact-checking AI weekly:**** 4.3 hours ****What percentage of users made decisions on hallucinated content:**** 47% in 2024 ****Do reasoning models eliminate hallucinations:**** No, some show higher rates on specific benchmarks ****Which response type has highest hallucination risk:**** Model-only parametric responses ****Which response type has lowest hallucination risk:**** RAG with span-level verification ****How much does structured RAG reduce hallucinations:**** 30-40% ****Should citations be considered proof:**** No, they are starting points for verification ****What is the relationship between confidence and accuracy:**** Inverse relationship ****Are confident answers more reliable:**** No, they are often less reliable ****How much more likely are confident phrases when hallucinating:**** 34% more likely ****Should high-confidence attribution get less scrutiny:**** No, it requires heightened scepticism ****What content structure reduces misrepresentation:**** Short, self-contained sentences ****Does entity disambiguation help:**** Yes, it reduces misattribution ****What is optimal answer capsule length:**** 40-60 words ****Does factual density affect hallucination:**** Yes, extreme density increases misattribution risk ****What is the simplest detection method:**** Direct source verification ****What does SelfCheckGPT measure:**** Response consistency across multiple queries ****What does high semantic entropy indicate:**** Model uncertainty and likely fabrication ****What is NLI-based grounding:**** Checking if claims are entailed by source documents ****Which detector has higher precision:**** LLM prompt-based detector ****Which detector has higher recall:**** BERT stochastic checker ****What is MetaQA:**** Cross-model consistency checking using prompt mutations ****What is span-level verification:**** Matching each claim against retrieved evidence ****Does prompt engineering eliminate hallucinations:**** No, it only reduces them ****Can architectural improvements eliminate hallucinations:**** No, hallucination is mathematically inevitable ****What should practitioners verify:**** Every citation against the actual source document ****Are answer engines reliable narrators:**** No, they are probabilistic text generators ****What are models calibrated to:**** Plausibility, not truth ****Should you trust inline citations immediately:**** No, always verify against source ****What happens when models cite your content:**** They may misrepresent your claims ****What happens when models cite competitor content:**** They may attribute things never said ****Can cited studies be completely fabricated:**** Yes ****What discipline do answer engines require:**** Verification discipline ****What determines success in the answer engine era:**** Understanding both capabilities and failure modes ****Should LLMs be used alone for systematic reviews:**** No, not recommended as primary tool ****Do all answer engines have equal hallucination risk:**** No, architecture significantly affects risk ****What increases citation reliability most:**** Knowledge graph grounding with entity-triple verification ****Is hallucination an edge case:**** No, it is a measurable, structural phenomenon ****What makes citation hallucinations particularly dangerous:**** Their convincing resemblance to legitimate references ****How do courts view AI-generated fake citations:**** As serious problems wasting time and resources ****What percentage of AI hallucination court cases occurred in 2025:**** Roughly 90%

****Are newer reasoning models immune to hallucinations:**** No, some show higher rates on benchmarks
****Does consistent entity representation help:**** Yes, it reduces hallucination risk at brand level ****What is the hallucination-resistance argument for entity authority:**** Stable parametric representation across multiple sources ****Should abstention be penalised in AI training:**** No, but current benchmarks often do ****What do next-token objectives reward:**** Plausible-looking text over accuracy ****Does RLHF amplify confidence bias:**** Yes, when feedback favours detailed over correct answers

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