

AI Hallucinations



noun

an experience involving the apparent perception of something not present.

■ Occurs when LLMs generate false information.

- Can appear plausible LLMs are designed to produce fluent, coherent text.
- Often are complete nonsense i.e. unsubstantiated by the facts.
- Generally caused by bad data in the source content; bias created while training the model; unclear, inconsistent, or contradictory input prompts.

LLM limitations

Inaccuracy

LLMs can generate biased, inaccurate, and incomplete data output, and are only as good as training data

Hallucinations

LLMs are not capable of determining accuracy. Only predict what word ordering has the highest probability of success

Transparency

LLMs generally cannot tell users why or how they came up with an answer or other response

Consistency

LLMs will not produce the same output for the same question at the same time because they only work on selecting probabilities

Security

LLMs utilize user inputs as training data, and have revealed proprietary or confidential data to other users

Solving for LLM limitations



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