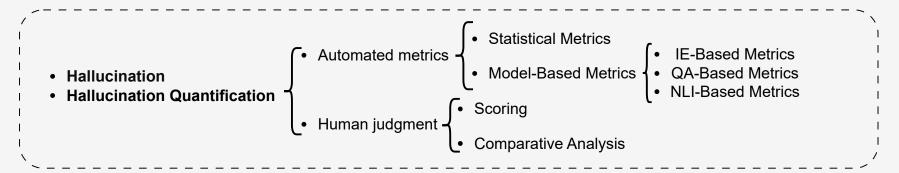
How LLMs Are Used and Augmented









Prompt Design and Engineering

- 1) Chain of Thought
- 2) Tree of Thought
- 5) Expert Prompting
- 7) Rails

8) Automatic Prompt Engineering

Prompt Generation

- Zero-Shot CoT Manual CoT
- 3) Self-Consistency

4) Reflection

6) Chains

- Topical Rails
- Fact-Checking Rails Prompt Scoring · Refinement and Iteration Jailbreaking Rails

B) Using LLMs

B) Augmenting LLMs through external knowledge - RAG

- Components of a RAG
- Retrieval
- Generation
- Augmentation

RAG Tools

- LangChain
- Meltano
- LlamaIndex
- Cohere Coral
- HayStack
- Flowise AI

a) RAG-aware prompting techniques



a) Tool-aware prompting techniques



Functionality of an LLM-based agent

- Tool Access and Utilization
- Decision Making

Prompt engineering techniques for agents

- Reasoning without Observation
- Reason and Act
- Dialog-Enabled Resolving Agents