

# Introduction to Evaluation Metrics

## Instructors

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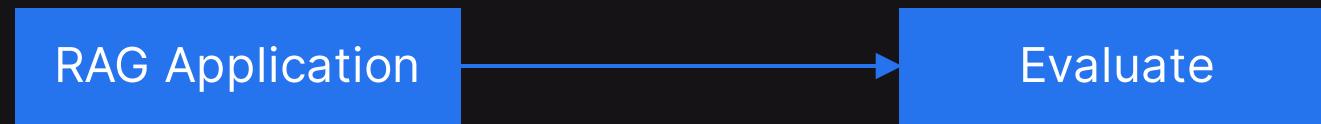
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# Introduction



# Introduction

- 1 Chunk Size
- 2 LLM
- 3 Embedding Model
- 4 Retrieval Algorithm
- 5 Response Synthesis

# Evaluation Metrics

# Evaluation Metrics

- 1 Retriever
- 2 Response Synthesis

# Retriever Evaluation Metrics

- Hit rate
- Mean Reciprocal Rank (MRR)

# Response Evaluation Metrics

- Faithfulness
- Correctness
- Context & Answer Relevancy
- Semantic Similarity
- Guideline Adherence

# Faithfulness

Evaluates if the answer accurately reflects the provided information, ensuring no hallucination.

## Correctness

Determining whether the generated answer aligns with the reference answer based on the query.

This evaluation relies on labeled data.

# Context Relevancy and Answer Relevancy

- Context Relevancy
  - Assesses if the retrieved context is relevant to the query
- Answer Relevancy
  - Evaluates if the generated answer is relevant to the query.

# Semantic Similarity

Indicates whether the predicted answer is semantically similar to the reference answer  
It also requires labeled data

# Guideline Adherence

Assesses if the expected response aligns with the given guidelines.

# Thank You

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