



## **Evaluation**

## accuracy analysis

This report evaluates the accuracy of the Retrieval-Augmented Generation (RAG) system using the Ragas the faithfulness, correctness, relevance, and contextual accuracy of the generated responses.

## evaluation methodology

The following metrics were used to assess the RAG system:

- faithfulness: Measures how well the generated answer aligns with the retrieved context.
- answer correctness: Evaluates whether the response is factually correct.
- **answer relevancy:** Assesses how relevant the answer is to the user query.
- **context recall:** Measures the proportion of relevant context retrieved.
- **context precision:** Evaluates the accuracy of retrieved context in relation to the query.

## approach

- ground truth comparison: Responses were compared against a predefined ground truth dataset.
- **human evaluation:** reviewed the generated responses for accuracy and relevance.
- metric-based scoring: Automated scoring was applied using Ragas to quantify accuracy.