

sample_input (General audience)

Theme 1 Demo

November 24, 2025

Introduction

- Retrieval-augmented generation (RAG) combines a retriever and a generator
- (Hindi) [' -] (RAG)
- The retriever fetches relevant documents, and the generator conditions on them to produce an answer
- (Hindi) ' ,
- A simple scoring function might be:
- (Hindi) ' ,

$$s(q, d) = \text{sim}(q, d) + \lambda \cdot \text{confidence}(d)$$

A Toy Theorem

- Consider a simple inequality used in analysis of loss functions: Here, is the population loss, is the empirical loss, is the number of samples, and is a constant.
- (Hindi) [': : : :']

Conclusion

- ...
- (Hindi) [' , ' .]
- ...

$$s(q, d) = \text{sim}(q, d) + \lambda \cdot \text{confidence}(d)$$