

Factuality and Transparency Are All RAG Needs!

Self-Explaining Contrastive Evidence Re-ranking for Retrieval-Augmented Generation

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Self-Explaining Evidence-Based Retrieval

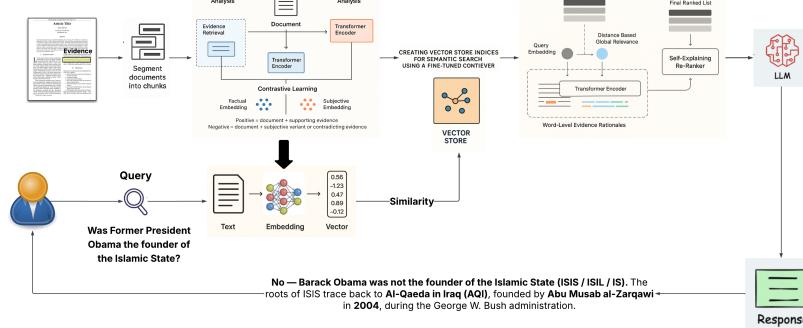


Figure 1. Self-Explaining Re-Ranking with Contrastive Evidence Selection for Retrieval-Augmented Generation.

Explainability



Figure 3. Word-Level Evidence Rationales.

Results

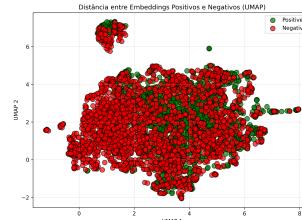


Figure 4. Contriever Base Model.

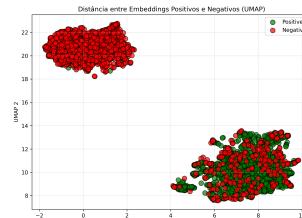


Figure 5. Contriever Fine-Tuned Model.

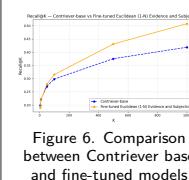


Figure 6. Comparison between Contriever base and fine-tuned models with Euclidean Triplet Loss.

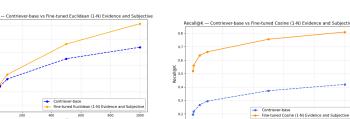


Figure 7. Comparison between Contriever base and fine-tuned models with Cosine Triplet Loss.

Contrastive Evidence Selection

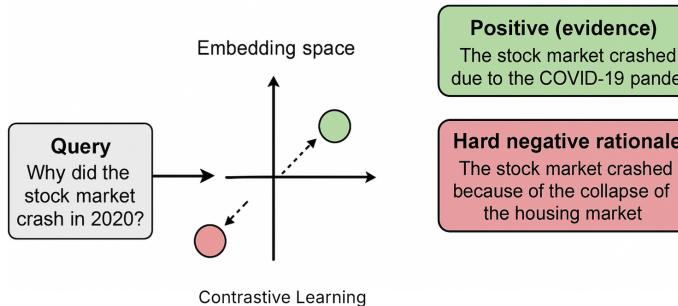


Figure 2. Contrastive Evidence Selection with Subjectivity-Based Hard Negative and Evidence-Based Positive Selection.

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← Check out the RATIONAL project!

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