Summary Explorer: Visualizing the State of the Art in Text Summarization

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document entities correctly reproduced in the summary.

Document entities not present in the summary.

Novel entities in the summary that must be closely inspected.

**Entity Coverage (Faithfulness)**

Document

Summary

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- Document entities not present in the summary.
- Novel entities in the summary that must be closely inspected.

**Relation Coverage (Faithfulness)**

Subject - Predicate - Object

Relations from the summary are lexically aligned to those from the document to assess faithfulness.

For a novel relation in the summary, the corresponding summary sentence and its related document sentences are shown as additional context.

**Position Bias Across Models (Document Level)**

Each summary sentence is aligned to its most lexically and semantically related document sentences.

**Position Bias of a Single Model (Corpus Level)**

Summaries from a single model are projected on to the article via lexical or semantic alignments to demonstrate the position bias.

**Use Cases**

- Manual inspection of summaries to reliably evaluate abstractive summarization models.
- Visualizing the relation between the summary and its source document.
- A unified and guided evaluation of summary quality.

**Tool Features**

1. Guided evaluation of **coverage**, **faithfulness**, and **position bias**.
2. Access to summaries from more than 50 summarization models across 3 datasets.
4. **Interactive model selection** based on multiple quantitative metrics.
5. **Open source** to enable easy integration of new models and datasets.

**Concept Visualizations**

**Content Coverage**

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