NLP07 Meeting Summarization System Testbench
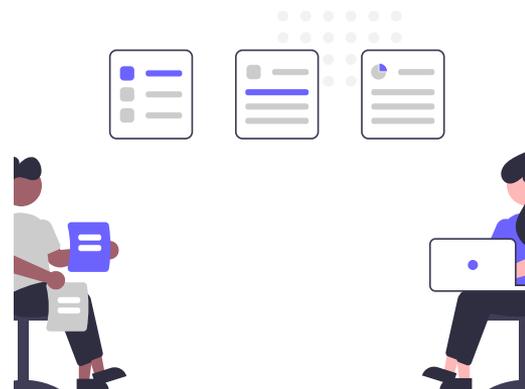
Background

The field of natural language processing has seen a significant amount of research in recent years on the task of meeting summarization. With the increasing availability of meeting transcripts, there is a growing need for efficient methods to automatically summarize the content of these meetings. As of now, due to the different formats of meetings and the dynamic, idiosyncratic nature, many domain- and problem-specific techniques have been introduced. However, the area lacks a standardized benchmark for evaluating these methods. Thus, it is difficult to compare and identify the strengths and weaknesses of the individual techniques.

Goal

- Design and develop a unified framework to test meeting summarization techniques (evaluation harness).

Tasks

- Develop a functionality to automatically add noise to the input text to assess models' robustness

- Make common automatic metrics and insightful techniques available to create a comprehensive evaluation report

- Implement a general applicable evaluation environment to test different models, datasets and metrics simultaneously

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NLP08 Multi-Source Meeting Summarization

Background

An increase in the number of online meetings made clear that typically meetings only have few key topics and a limited amount of relevant information for all participants. Therefore, the extraction of their key topics and their summarization became more sought after. Meetings differ from traditional text. The multi-party setting, deviant formats, idiosyncratic nature, and different semantic styles promote a complex scenario. Short meetings can easily reach thousands of tokens in just a few minutes. Thus, techniques that produce high quality summaries from multiple sources (e.g., transcripts, email, chat), including the most important ideas discussed, are still necessary. For now, we seek which techniques related to the meeting summarization domain, e.g., text summarization and generation, can be adapted to meetings.

Goal

- Explore the automatic text summarization task (abstractive) applied to meetings [low resource languages]

Tasks

- Study which models, datasets and metrics can be used in this task (from meeting summarization directly and related domains)

- Define describing criteria for models, datasets and metrics and organize these according to the criteria (e.g., relation graph, clustering)

- Evaluate current state of the art models in a scalable process and incorporate the results into the individual descriptions / organizations

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