

CS 491 NLP Project Report 1

Group No.: G18

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Reference Paper Title: Summarizing Lengthy Questions

Authors: Tatsuya Ishigaki, Hiroya Takamura and Manabu Okumura

Summary Of Paper

In this research paper, authors have proposed the task of question summarization. They first analyzed question-summary pairs extracted from a Community Question Answering (CQA) site [here *Yahoo! Answers Comprehensive Questions and Answers version 1.0*], and found that a proportion of questions cannot be summarized by extractive approaches but requires abstractive approaches. Summarizing a question, which can often be lengthy, helps respondents understand the question. Approaches used in generic summarization tasks are often classified into two different types: extractive and abstractive. Extractive approaches select and order units, which are usually sentences or words, from the input text. Abstractive approaches, rather than selecting units, generate a summary using words not found in the input text. By using the data, they trained extractive and abstractive summarization models, and compared them based on ROUGE scores and manual evaluations. The experimental results show an abstractive method using an encoder-decoder model with a copying mechanism achieves better scores for both ROUGE-2 F-measure and the evaluations by human judges.

Work done so far

1. Reading of paper and going through references to understand the concept more.
2. Since the paper was based on the dataset *Yahoo! Answers Comprehensive Questions and Answers version 1.0*, which was not publicly available, so we applied for the dataset as research purpose. Now we have got access to the dataset so we will be proceeding with the analysis.

Plan of work and responsibilities:

