Report of Task-1

Paper title: Text Summarizer Using NLP (Natural Language Processing)

Paper link:

https://www.irejournals.com/formatedpaper/1703633.pdf

1 Summary

1.1 Motivation/purpose/aims/hypothesis:

The paper aims to develop a text summarizer using NLP techniques. The hypothesis is that by utilizing NLP, the proposed text summarizer will effectively generate summaries of varying text documents.

1.2 Contribution:

Proposed text summarizer based on the ROUGE-F1 metric, which evaluates the quality of text summaries. Additionally, they provide insights into the importance of selecting the right NLP model for text summarization.

1.3 Methodology (20%)

1. Preprocessing: The input text is converted into a numerical representation using a pre-trained NLP model.
2. Extraction: The pre-processed text is fed into a language model to generate summary candidates.
3. Ranking: The generated summary candidates are ranked based on the ROUGE-F1 metric.
4. Postprocessing: The top-ranked summary candidate is returned as the final summary.

1.4 Conclusion

The proposed text summarizer achieves state-of-the-art performance in terms of summary quality. Furthermore, the paper emphasizes the significance of using appropriate NLP models for text summarization.

2 Limitations

2.1 First Limitation/Critique :

One limitation of the proposed approach is its reliance on a single NLP model for text summarization. This may result in limited generalization capabilities for summarizing text from diverse sources.

2.2 Second Limitation/Critique:

Another limitation is the computational intensity of the proposed text summarizer. As a result, real-time summary generation may not be feasible using this approach.

3 .Synthesis:

The proposed text summarizer offers a promising approach for generating high-quality summaries of varying text documents. By further refining the methodology and exploring different NLP models, this approach can potentially be applied to various domains, such as news reporting, academic research, and legal documents. Additionally, the insights gained from this study can serve as a foundation for future research on text summarization and its integration with other NLP tasks.