NLP PROJECT

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Topic : Text Summarisation Using NLP

PROBLEM STATEMENT

In today’s world, large amounts of textual data is generated every day. It is very hard to understand and analyse that data so there is a need for automatic text summarization also with a user friendly GUI. Even though we have many methods of implementing this, the best way is using natural language processing techniques that are by using NLTK and Spacy libraries. Basically we need an application that collects important data from big volume of textual data. Natural language processing tools and techniques results out with best accuarcy than any other existing algorithms.

Abstract:

Today, everything is virtualized, and there is a large volume of textual data that is difficult to examine for various purposes. There are two types of text summarization: extractive and abstractive. In extractive, the model extracts the main points, whereas in abstractive, the model generates the summaries. Text summarization is a one-time approach for comprehending and evaluating vast amounts of data included in text and files. For its packages and methods, it is best implemented using NLP. For automatic text summarization, reinforcement learning is also proposed, with neural networks used to estimate the Q value. Rouge is used to assess the model’s performance. In this case, NLTK (natural language toolkit) is one of the most powerful libraries in NLP, and spacy is used to analyse and summarise a significant amount of data.

Index Terms—Extractive, Abstractive, Rouge, Reinforcement Learning , NLTK, Spacy.