Mini Project - II

(2020-2021)

Text Summarization

Synopsis

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Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the B.Tech Mini-Project-II **(Text Summarization)** undertaken during B.Tech IIIrd Year. This project in itself is going to be an acknowledgement to the inspiration, drive and technical assistance will be contributed to it by many individuals.

We owe special debt of gratitude to **Mr. Piyush Vashisth,** Assistant Professor Department of CEA, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance is been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies.

We also do not like to miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

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Abstract

Nowadays, machines have become smarter than us. The technologies have reached to an extent where they can do all the tasks. And this all can happen via machine learning. Today all machines are capable of understanding human language using Natural Language Processing.

Here we are making a text summarizer, as we know manually generating a summary of long text is a tedious and time consuming task. So here is the solution “Text Summarizer”. Text Summarizer is a web-based application which helps in summarizing the text. Text summarization is the technique for generating a concise and precise summary of voluminous texts while focusing on the sections that convey useful information, and without losing the overall meaning. Similarity of text is a crucial aspect for many text summarization methods.

There is a need to develop automatic text summarization tools that allow people to get insights from them easily. Two broad approaches to text summarization are extraction and abstraction. Extraction methods create a summary by extracting parts from the text. Abstraction methods create summary by generating fresh text and generate new phrases and sentences that represent the most important information from the source text. Currently, we made extractive text summarizer, later on we extent it on abstractive text summarizer.

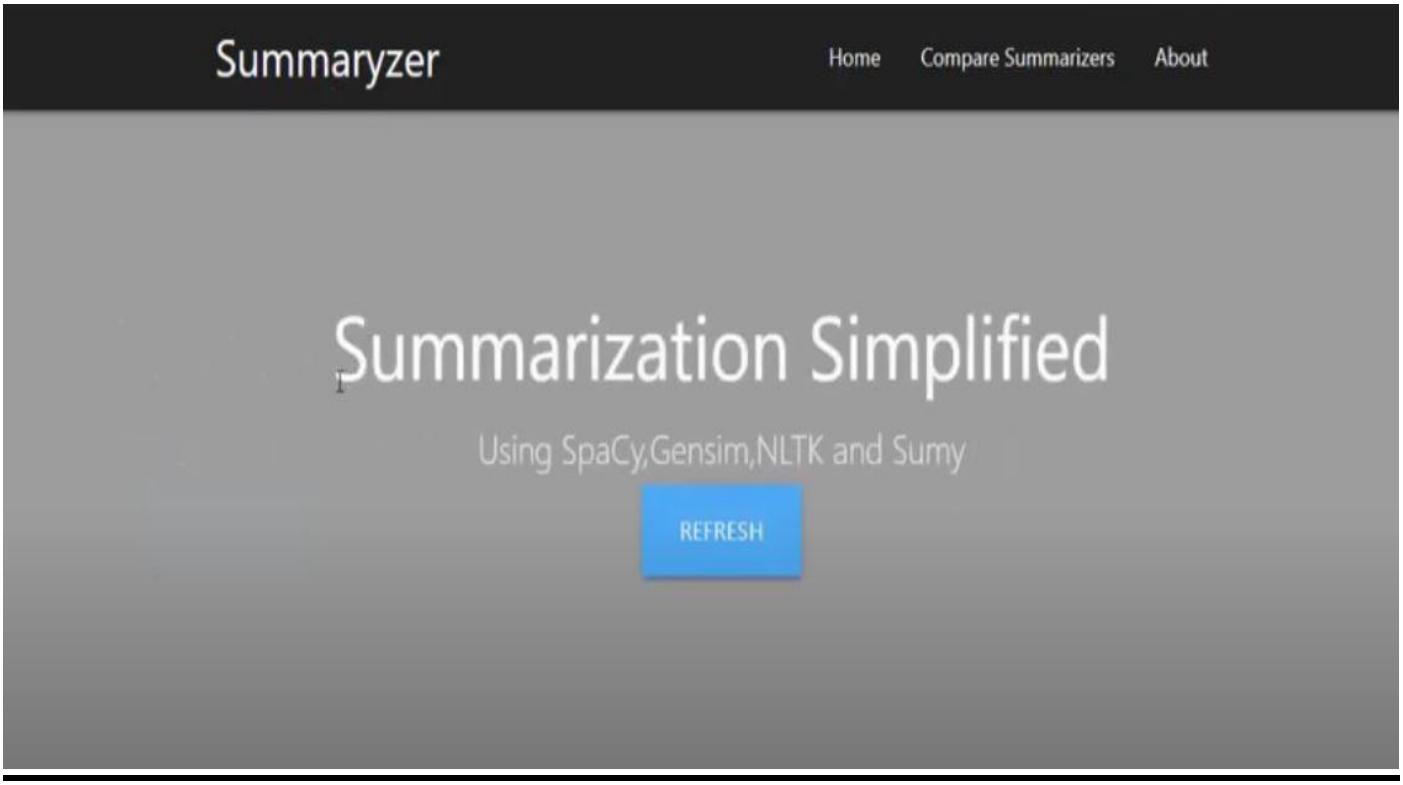
The main purpose is to provide reliable summaries of web pages or uploaded files depends on the user’s choice.

Objective

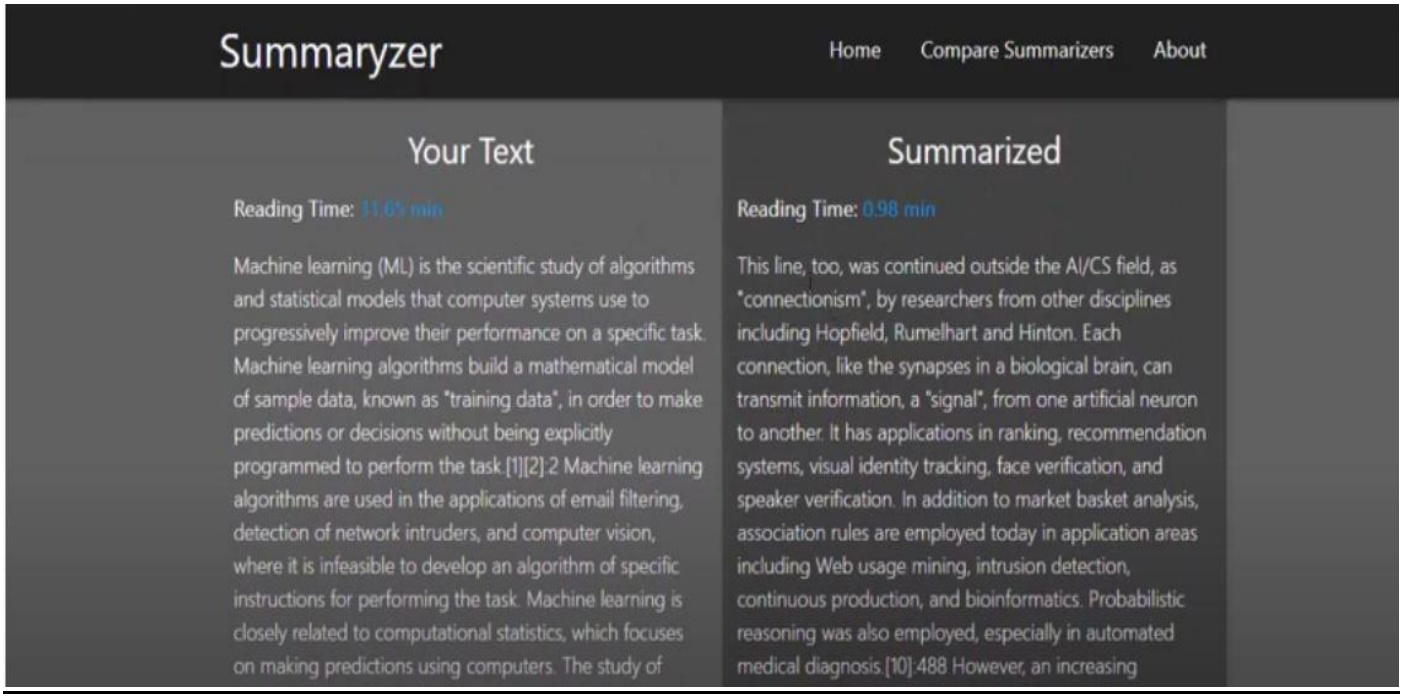
Text Summarizer web app is the web app to give quick summary of the content passed to it. Most of the readers are not interested in reading the long text instead they want to read the quick summary of the articles and get the main idea of the article. Our web app solves this problem by providing the summary.

Expected Design

1.



2.



System Requirements

Hardware Interface:

- Pentium Processor
- 60 GB of free hard-drive space
- 8 GB of RAM

Software Interface:

- Operating System: Windows (Vista/7 or above)
- Web Browser: IE 10 or above, Mozilla FF 31 or Google Chrome
- Integrated Development Environment: Visual Studio Code, Pycharm.

References

- https://www.aclweb.org/anthology/W17-1003.pdf
- https://www.geeksforgeeks.org/project-idea-text-summarizer/
- https://journals.sagepub.com/doi/abs/10.1177/0165551511408848