

TEXT SUMMARIZER USING AI
PROJECT SYNOPSIS
OF MINOR PROJECT

BACHELOR OF TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING

SUBMITTED BY
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UNDER GUIDANCE OF
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TABLE OF CONTENT

CONTENT	Page No.
Index	2
Objective	3
Overview	4
Scope	6
Resources	7
Conclusion	8
References	9

OBJECTIVE

The objective of making a text summarizer project using React, Vite.js and Rapid API is to build a useful and efficient tool that can help people to save time and effort when processing large amounts of text.

Text summarization is the task of automatically reducing the length of a text while preserving its key information content.

This can be useful for a variety of tasks, such as:

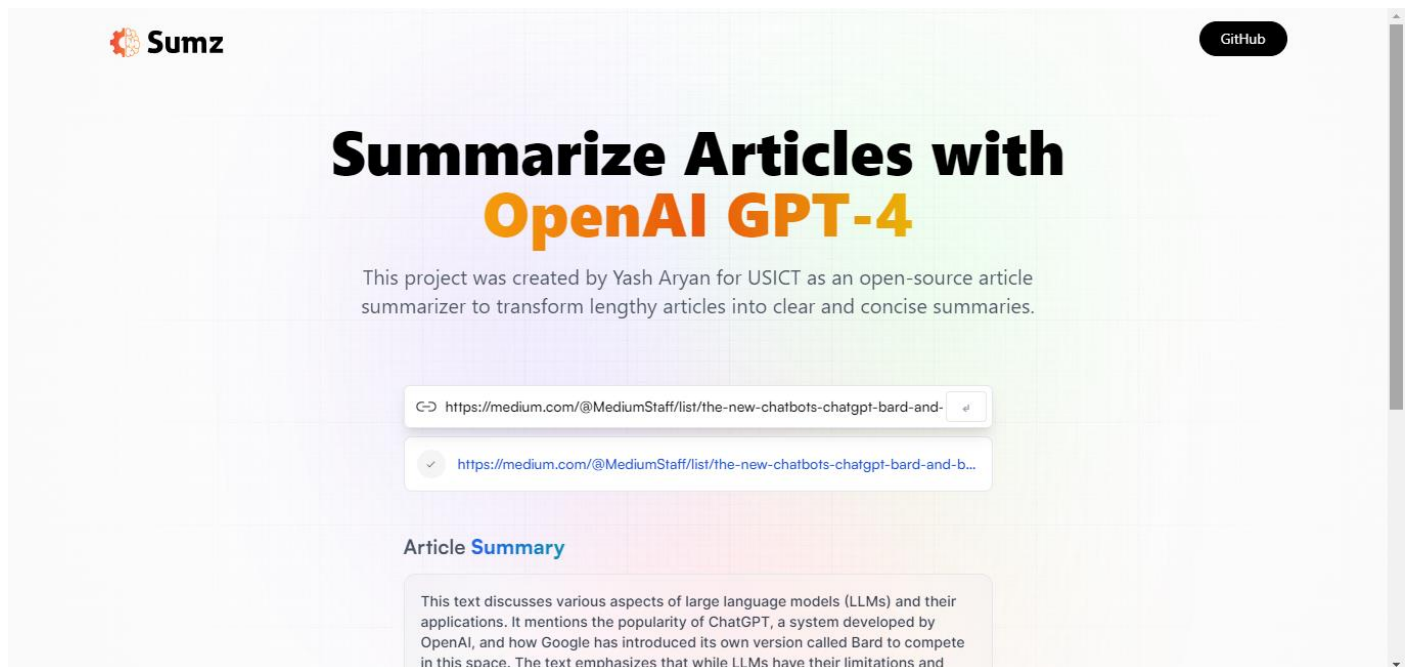
- Getting a quick overview of a long article or document
- Identifying the most important points in a meeting or lecture
- Generating summaries of customer reviews or social media posts
- Creating concise and informative abstracts for research papers

OVERVIEW

This summarizer uses article extractor and summarizer API for extracting the article from the link and summarizing it. This project was made with React, Vite.js and Rapid API. When a user pastes a link to an article in the search bar, it extracts the article from that link, summarizes the article and presents the summary to the user within five seconds. The search history of user is also stored, which can be further used by copying the link.

A link to the source code is also available in the upper right corner of the web page. The user can clone the repository and run the project on his local machine by using “npm run dev” command in the terminal. To build the project locally, user must use “npm run build” command in the terminal.

This project is deployed on netlify and can be accessed by following the link: <https://frabjous-tarsier-14495c.netlify.app/>



Summarize Articles with OpenAI GPT-4

This project was created by Yash Aryan for USICT as an open-source article summarizer to transform lengthy articles into clear and concise summaries.

<https://medium.com/@MediumStaff/list/the-new-chatbots-chatgpt-bard-and->



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Article Summary

This text discusses various aspects of large language models (LLMs) and their applications. It mentions the popularity of ChatGPT, a system developed by OpenAI, and how Google has introduced its own version called Bard to compete in this space. The text emphasizes that while LLMs have their limitations and

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Article Summary

This text discusses various aspects of large language models (LLMs) and their applications. It mentions the popularity of ChatGPT, a system developed by OpenAI, and how Google has introduced its own version called Bard to compete in this space. The text emphasizes that while LLMs have their limitations and may not be perfect, they can still be valuable tools for problem-solving and generating innovative solutions. It also highlights the use of LLMs in generating questions for events and the potential for LLMs to provide insights and echo back knowledge that humans have already discovered. The text further delves into the technical aspects of LLMs, such as the self-attention mechanism that enables training of models like GPT-3 and the technique of Reinforcement Learning From Human Feedback. It mentions the ease of accessing the power of GPT-4 through the OpenAI API and provides steps for developers to interact with the model using Python. The text also mentions that ChatGPT is trained on dialogue datasets, including demonstration data, to provide expected responses. The limitations of LLMs are also discussed, with examples given of situations where ChatGPT may not perform well, such as handling client work or solving coding problems that are not commonly encountered. The text also touches upon the issue of bias in LLMs, specifically mentioning the higher occurrence of toxic prompt completions when referring to LGBTQ+ groups. Finally, the text mentions the anticipated growth of the AI market due to the implementation and development of fundamental models and the availability of significant capital investment in this field.

SCOPE

This project has a broad scope and can be used for a variety of tasks, including:

- **News and media:** Generate summaries of news articles, blog posts, social media posts, and other media content. This can be useful for people who want to stay informed about current events or who need to quickly get a sense of the main points of a long article.
- **Education:** Create study guides for exams, summarize textbooks and research papers, and help students to understand complex texts. This can be helpful for students who are struggling with a particular subject or who need to prepare for a test.
- **Business:** Generate summaries of customer reviews, financial reports, and other business documents. This can be helpful for businesses that want to get a better understanding of their customers or who need to quickly review large amounts of data.
- **Research:** Create abstracts for research papers, identify the key findings of a large body of literature, and generate summaries of scientific papers for people who are short on time. This can be helpful for researchers who need to quickly get up to speed on a new topic or who need to create a concise overview of their work.
- **Accessibility:** Make information more accessible to people with disabilities by summarizing texts that would otherwise be difficult or impossible to read. This can be helpful for people who are visually impaired, have dyslexia, or have other cognitive disabilities.

RESOURCES

HARDWARE RESOURCES:

- A computer with a modern processor like i7-10700 and graphics card.
- A minimum of 8GB of RAM.
- A hard drive or solid-state drive with at least 10GB of free space.

SOFTWARE RESOURCES:

- Web development framework used for this project is React.
- JavaScript library used for this project is Vite.js
- Application programming interface used for this project is Article Extractor and Summarizer API

CONCLUSION

This summarizer uses article extractor and summarizer API for extracting the article from the link and summarizing it. This project was made with React, Vite.js and Rapid API. When a user pastes a link to an article in the search bar, it extracts the article from that link, summarizes the article and presents the summary to the user within five seconds. The search history of user is also stored, which can be further used by copying the link.

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