



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

GN-R-18 (2022 - 2023) II B. Tech II Sem Hobby Project

on

YouTube Transcript Summarizer

Abstract

YouTube is a popular platform that hosts an enormous amount of educational and informative videos, among others. These videos can often be lengthy, and not everyone has the time or patience to watch them in their entirety. This project aims to develop a Chrome Extension that provides a summarized version of a YouTube video's transcript.

The Chrome Extension will interact with a backend REST API that will utilize natural language processing techniques to generate a condensed version of the video's content. The API will analyze the transcript, identify the key points, and provide a summarized version of the video's content. The summarized version will highlight the most critical points, making it easy for viewers to understand the video's main ideas.

To develop the Chrome Extension and the backend REST API, the project requires expertise in several technologies, including HTML, CSS, JavaScript, Python, Flask, and natural language processing. The Chrome Extension will be user-friendly and easy to use. The viewers will only have to click a button, and the summarized version of the video's transcript will be displayed.

The successful completion of this project will provide a valuable tool for YouTube viewers who want to save time and access the main ideas of a video quickly. This Chrome Extension has the potential to improve the overall user experience of the YouTube platform and enhance the accessibility of its content.

S/W Requirements

1. Python
2. Flask, HTML, CSS, JavaScript
3. Natural Language Processing

H/W Requirements

1. Processor: Intel Core i5 (8th Gen)
2. RAM:8GB DDR4
3. Graphic Processor: Intel UHD 620

*Dept R&D: No

* If No: GNITS



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