# **YouTube Transcript Summarizer**

#### **Overview**

YouTube Transcript Summarizer is a web application that extracts transcripts from YouTube videos, summarizes the content, translates it into Hindi, and provides an option to listen to the summarized content using text-to-speech.

#### **Features**

- **Summarization:** Automatically summarizes the transcript of a YouTube video using Hugging Face's T5 summarization model.
- **Translation:** Translates the summarized content into Hindi using the Helsinki-NLP translation model.
- **Text-to-Speech:** Generates a voice from the summarized content for easy listening.

### **Getting Started**

#### **Prerequisites**

- Python 3.6 or later
- Flask
- Flask-CORS
- YouTube Transcript API
- Transformers library
- Pyttsx3

#### Installation

Clone the repository:	
bashCopy code	
clone	
Install dependencies:	
bashCopy code	
	Install dependencies:

#### **Usage**

- 1. Run the Flask application:
  - bashCopy code
- 2. Open the web browser and navigate to http://127.0.0.1:9989.
- 3. Enter the YouTube video URL and click the "Summarise" button to initiate the summarization process.

### **API Endpoints**

- /summary (GET): Fetches the summarized transcript of a YouTube video.
  - Parameters:
    - url (string): YouTube video URL.
- /translate (POST): Translates the text content into Hindi.
  - Parameters:
    - **text** (string): Text to be translated.
- /listen (POST): Generates a voice from the text content.
  - Parameters:
    - **text** (string): Text to be converted into speech.

#### License

This project is licensed under the MIT License.

### **Acknowledgments**

- Hugging Face for the T5 summarization model and translation model.
- <u>YouTube Transcript API</u> for fetching YouTube video transcripts.

#### **Author**

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## Contributing

If you'd like to contribute to this project, please follow the **Contributing Guidelines**.