

## **\*\*Summary:\*\***

This project creates an end-to-end system using Google's Gemini API to automatically extract transcripts and generate summaries of YouTube videos.

## **\*\*Key Points:\*\***

- \* **\*\*Project Overview:\*\*** Transcribe YouTube videos and summarize the text using Google's Gemini AI.

- \* **\*\*YouTube Transcript API:\*\*** Extracts transcripts from YouTube videos using video URLs.

- \* **\*\*Gemini AI Integration:\*\*** Generates summaries from transcripts using Gemini's generative models.

- \* **\*\*Streamlit Interface:\*\*** Provides a user interface to input YouTube links, display video thumbnails, and display summary results.

- \* **\*\*Customization:\*\*** Prompt engineering allows for customizing summary generation based on specific requirements.

- \* **\*\*Example Implementation:\*\*** A working example is provided, demonstrating the extraction of transcripts and generation of summaries for a specific YouTube video.

- \* **\*\*Additional Resources:\*\*** The project credits Dendra Verma for the initial implementation and provides a link to his LinkedIn profile for further consultation.

- \* **\*\*Future Enhancements:\*\*** The author plans to explore local model execution, especially using LAMA index for Windows compatibility.