YouTube Video Summarizer Documentation

YouTube Video Summarizer is a project that takes YouTube videos and provides a summary of the video. You will need to provide the link of the YT video and it will analyze the audio and visual content of the video and then create a short summary.

**Project Workflow / Pipeline**

First, we will download the YT video using pytubefix library.

Then we will extract the audio from the downloaded video using moviepy library.

After extracting the audio, we will extract the transcript from the audio file using whisper library.

For video analysis, we will use YOLOv8 model for object detection and pytesseract for text detection for every one second frame of the video.

Then we will feed all this data to the openAI model and ask it to generate a short summary for us.

I have developed an basic interface for the app using gardio.