**Extracting text from video with Python**

**Speech recognition is one of the interesting applications of machine learning that allows you to recognize the text behind the voice. Using voice recognition, we can extract text from a video. In this free Python project, we teach you how to extract text from videos with Python .**

**How to extract text from video with Python?**

**The first step is to download the video. After downloading the videos, you need to install two Python libraries :**

**SpeechRecognition : pip install SpeechRecognition**

**moviepy : pip install moviepy**

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**After installing the above two Python libraries, you can start coding. Here is the complete Python program to convert a video to text :**

**import speech\_recognition as Sr**

**import moviepy . editor as mp**

**from moviepy . video . io . ffmpeg\_tools import ffmpeg\_extract\_subclip**

**num\_seconds\_video = 52 \* 60**

**print ( "The video is {} seconds" . format ( num\_seconds\_video ))**

**l = list ( range ( 0 , num\_seconds\_video + 1 , 60 ))**

**diz = {}**

**for i in range ( len ( l ) - 1 ):**

**ffmpeg\_extract\_subclip ( "videorl.mp4" , l [ i ] - 2 \* ( l [ i ] != 0 ), l [ i + 1 ], targetname = "chunks/cut{}.mp4" . format ( i + 1 ))**

**clip = mp . VideoFileClip ( r"chunks /cut{}.mp4" . format ( i + 1 ))**

**clip . audio . write\_audiofile ( r"converted/converted{}.wav" . format ( i + 1 ))**

**r = Sr. \_ Recognizer ()**

**audio = Sr. \_ AudioFile ( "converted/converted{}. wav" . format ( i + 1 ))**

**with audio as source :**

**r . adjust\_for\_ambient\_noise ( source )**

**audio\_file = r . record ( source )**

**result = r . recognize\_google ( audio\_file )**

**diz [ 'chunk{}' . format ( i + 1 )] = result**

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**After extracting the Python code above, you need to create a text document to store all the text extracted from the video :**

**l\_chunks = [ diz [ 'chunk{}' . format ( i + 1 )] for i in range ( len ( diz ))]**

**text ='\ n' . join ( l\_chunks )**

**with open ( ' recognized.txt' , mode ='w' ) as file :**

**file . write ( "Recognized Speech:" )**

**file . write ( "\n" )**

**file . write ( text )**

**print ( "Finally ready!" )**

Amirshayan Jalili

[Shayan138190@gmail.com](mailto:Shayan138190@gmail.com)

<https://github.com/Amirshayan2002>