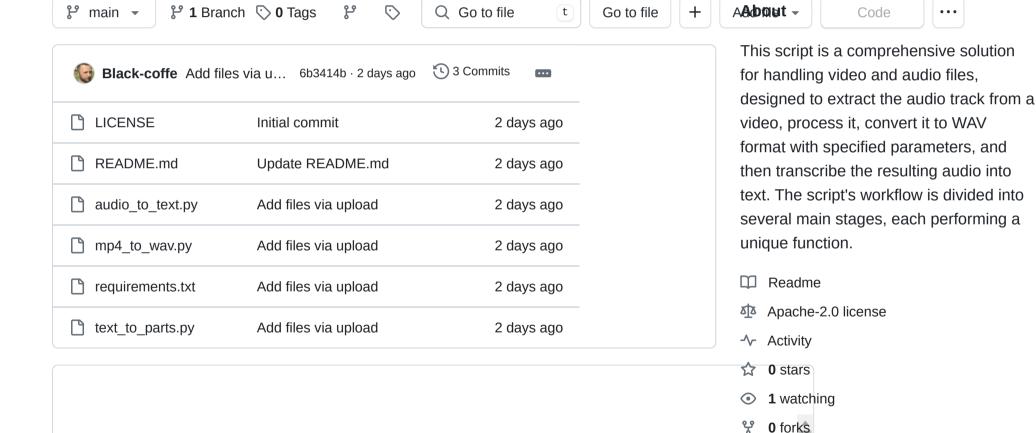


AudioExtractor-and-Transcriber Public



AudioExtractor-and-Transcriber

Releases

Report repository

extract the audio track from a video, process it, and then transcribe the resulting audio into text.

The workflow is divided into several stages, each dedicated to a specific function.

Packages

No packages published

Features

- Extract Audio from Video: Utilizes moviepy to extract audio tracks from video files.

 Languages
- Process Audio Track: Leverages pydub for audio processing, including conversion to mono
 and setting the sampling rate to 16kHz.
- Transcribe Audio to Text: Employs vosk, a powerful tool for speech recognition, to convert audio into text.
- **Text Processing**: Saves the transcribed text and can split it into manageable parts for easier handling.

Use Cases

This script is ideal for:

- · Creating text versions of video lectures and podcasts.
- · Automating subtitle creation for videos.
- Extracting meaningful quotes from video content.
- Preparing data for analysis in machine learning projects.

Technical Requirements

README Apache-2.0 license

Libraries and Models

• moviepy: For video file manipulation.

- pydub: For audio processing tasks. Requires FFmpeg for operations like format conversion.
- **vosk**: For accurate speech recognition. You will need to download a model compatible with your audio content's language from Vosk Models.

FFmpeg

FFmpeg is a complete, cross-platform solution to record, convert and stream audio and video. It's required for pydub to process audio files. You can download FFmpeg builds from here.

Vosk Models

Vosk offers a variety of models that support different languages and are optimized for various audio types. You can download the appropriate model for your project from <u>Vosk Models</u>. Ensure to download and specify the correct model path within the script.

Installation

Clone this repository and install the required dependencies:

```
git clone https://github.com/yourusername/AudioExtractor-and-Transcriber.git cd AudioExtractor-and-Transcriber
pip install -r requirements.txt
```

Usage

To use the script, simply specify the path to your video file and the desired output path for the audio file. The script will handle the extraction, processing, and transcription: