

VisualTunes

**Music Playlists with
Deep Learning visuals**

By Banana 9 fingers

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PROJECT PREVIEW

The projects try to automatically creates a playlist of music based on a mood you specify. It searches for music on YouTube using API, downloads the audio, generates a visual representation of each track, and combines them into a final video.



PROJECT OBJECTIVE



optimize OS concept

- Multi-Threading (Subprocess)
- Memory Management and Resource Optimization (psutil, gc.collect())
- File Handling

Build the Playlist

- Build the playlist based mood input
- Search by using Youtube API

Visualize the audio

- Download the video from Youtube as audio (yt-dlp)
- Generate visualizations (Deep Music Visualizer)

DATA SOURCE

Youtube API – for Finding video based on mood keyword. It provide video metadata(video IDs, titles) by querying the Youtube based on a search query.

yt-dlp – for Downloading the actual audio files from videos.

Deep Music Visualizer – for Generating visuals from audio files (additional source)



THANK
YOU

