## VisualTunes

## Music Playlists with Deep Learning visuals

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### MEMBERS



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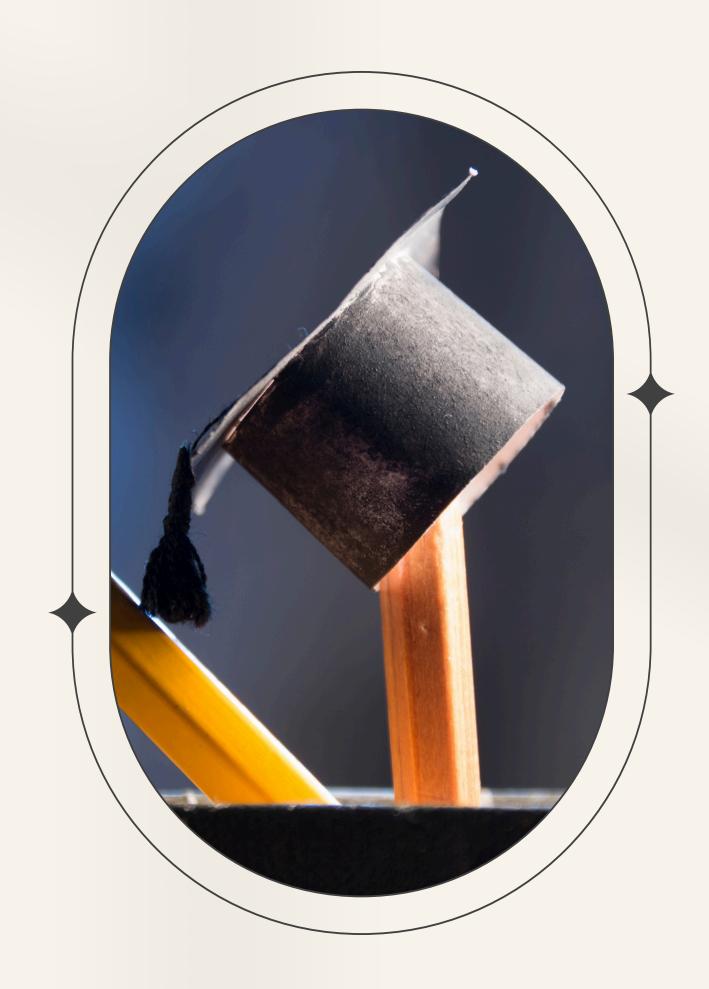
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# PROJECT PREVIEW

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