

12

★ NOW SHOWING ★

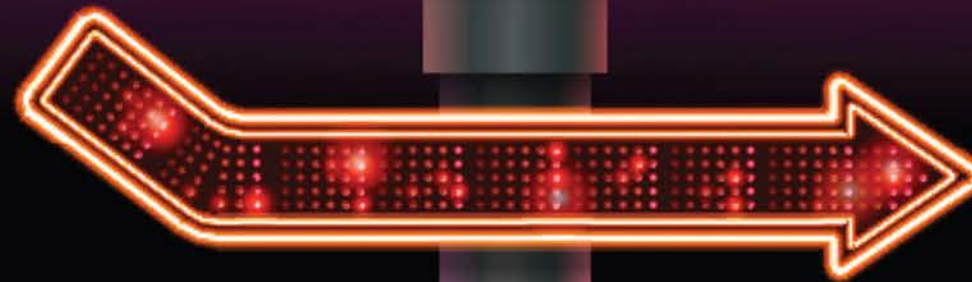
DHRUBA CHAKRABARTI

DIPESH PANDYA

LEXIE WUKICH

# DEEPRACER

PROJECT 3: MOVIE TRAILER MAKER







### Our Approach

Our team is composed of Dhruva Chakrabarti, Dipesh Pandya and Lexie Wukich

### Our Question

QUESTION: How we could incorporate concepts from class to generate music?

### Our Idea

INITIAL IDEA: Creating new music based on the sentiment and emotions from summarized lyrics in songs.

EXPANDED IDEA: Create new music based on the sentiment and emotions from movies.







NOW SHOWING

TEAM DEEPRACER

# PROJECT OVERVIEW

QUESTION: How we could Incorporate concepts from class to generate music?


INITIAL IDEA: Creating new music based on the sentiment and emotions from summarized lyrics in songs.

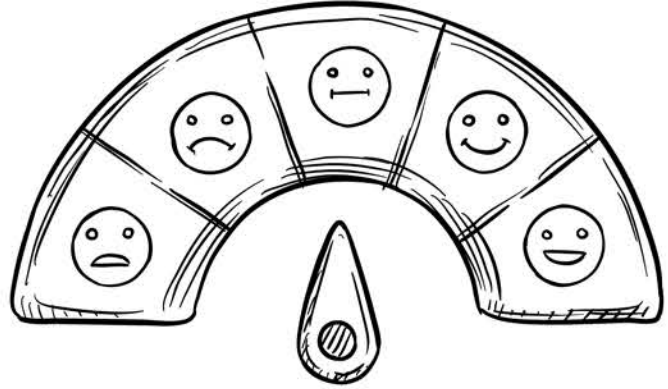
EXPANDED IDEA: Create new music based on the sentiment and emotions from movies.


A STORYBOARD EXAMPLE >>>



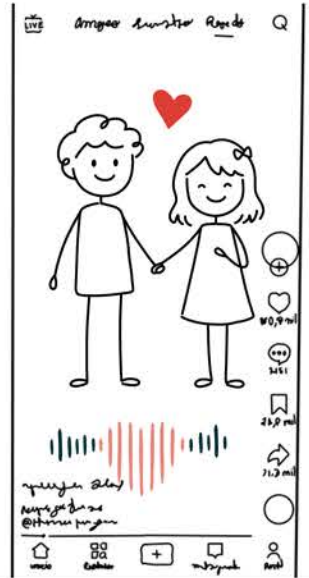
Scene	Duration
	
Bob wants to share his favorite movie on TikTok.	

Scene	Duration
	
Bob goes to the Movie Sentiment Analyzer and puts in his favorite movie	

Scene	Duration
	
The Movie Sentiment Analyzer returns the Decoded Emotions from the movie	

Scene	Duration
	
The Mini Soundtrack Generator uses the Decoded Emotions and genre to create original music	

Scene	Duration
	
The Mini Movie Trailer combines Images from the movie with the Mini Soundtrack	

Scene	Duration
	
Bob shares his Mini Movie Trailer with the world	

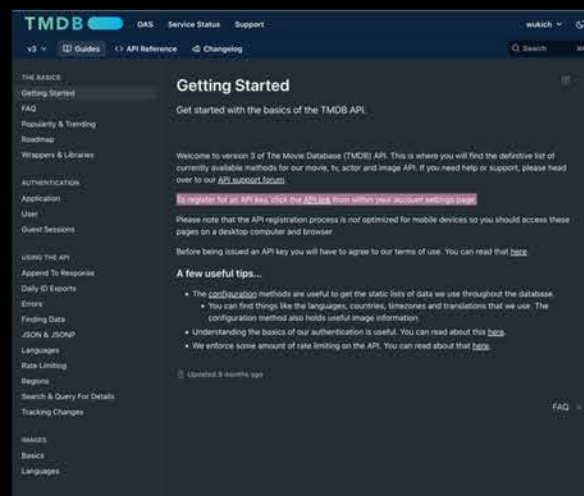




## Step 1: Extract Movie Details using The Movie Database

### API Key

Register for an API key, click the [API link](#) from within your account settings page.

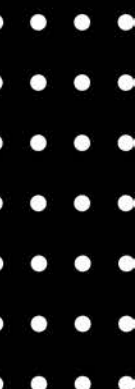


### Use the Movie Title to get the Movie ID, Keywords, Overview, and Genre

`https://api.themoviedb.org/3/search/movie?api_key={TMDB_API_KEY}&query={movie_title}`

### Use the Movie ID to get Images

`https://api.themoviedb.org/3/movie/{movie_id}/images?api_key={TMDB_API_KEY}"`





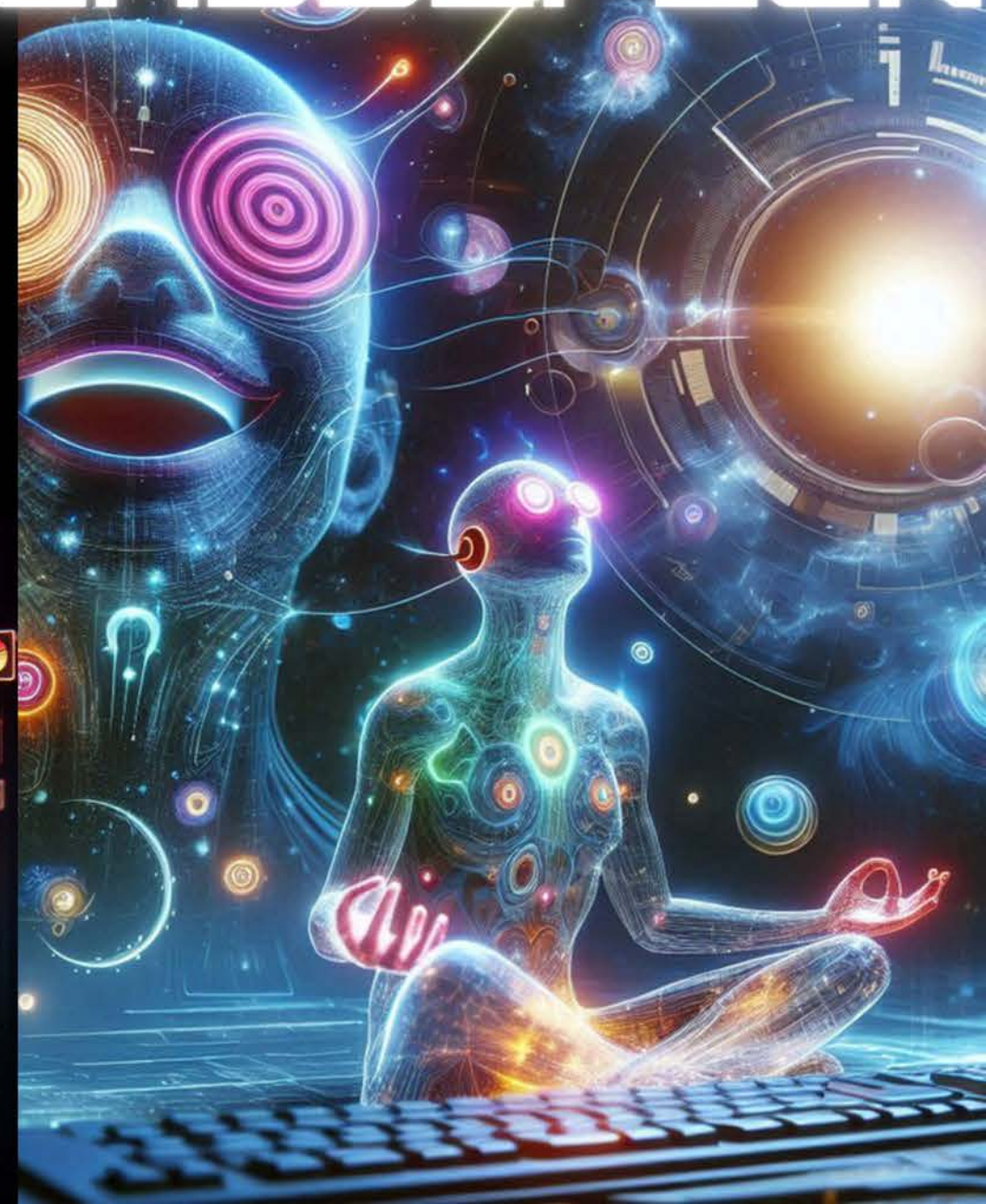


EMOTION  
CLASSIFIER

ROBERTA  
EMOTION  
CLASSIFIER



STEP 2: USING MOVIE  
SENTIMENT ANALYZER  
TO EXTRACT DETECTED  
EMOTIONS





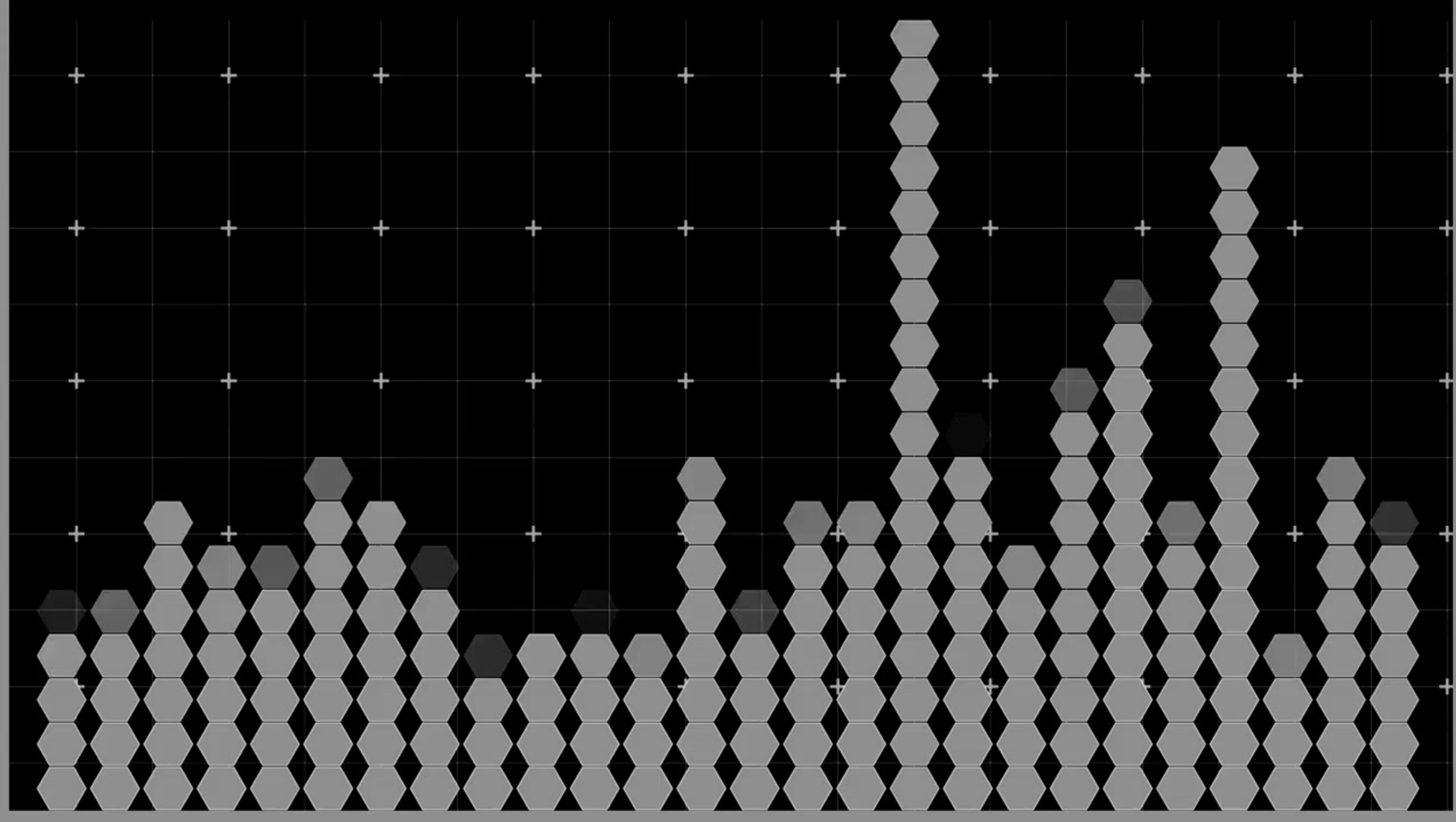
STEP 3: PASS  
THROUGH  
OUTPUTS FROM  
TMDB DETAILS  
AND MOVIE  
SENTIMENT  
ANALYZER TO  
GENERATE THE  
“MINI  
SOUNDTRACK”



EXAMPLE FOR MOVIE “A TIME TO KILL”











# STEP 4

Merge the "Mini Soundtrack"  
with the TMDb Images to  
Create the "Mini Movie  
Trailer"

AN EXAMPLE FROM "READY PLAYER ONE" >>>



## Movie Sentiment Analyzer

Share the movie you're watching to find the emotions and images to create your trailer.

What movie are you in the mood to watch?

Clear

Submit

Detected Emotion(s)

Movie Images

Prompt generated for music

☐ playable\_video



Flag









# BUILD YOUR OWN mini movie TRAILER

AN IN CLASS DEMONSTRATION



**HELP**

**GRADIO LINK**



# PAIN POINTS & OPPORTUNITIES







THE DEEPRACER TEAM WOULD LIKE TO THANK:

AUDIOCRAFT

HUGGTNGFACE