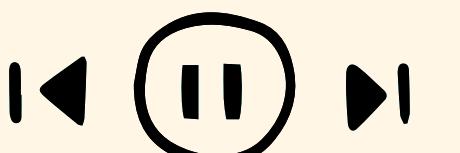


# MUSIC RECOMMENDATION

**ABDULRAHMAN  
TAREK**





# **HELLO THERE!**

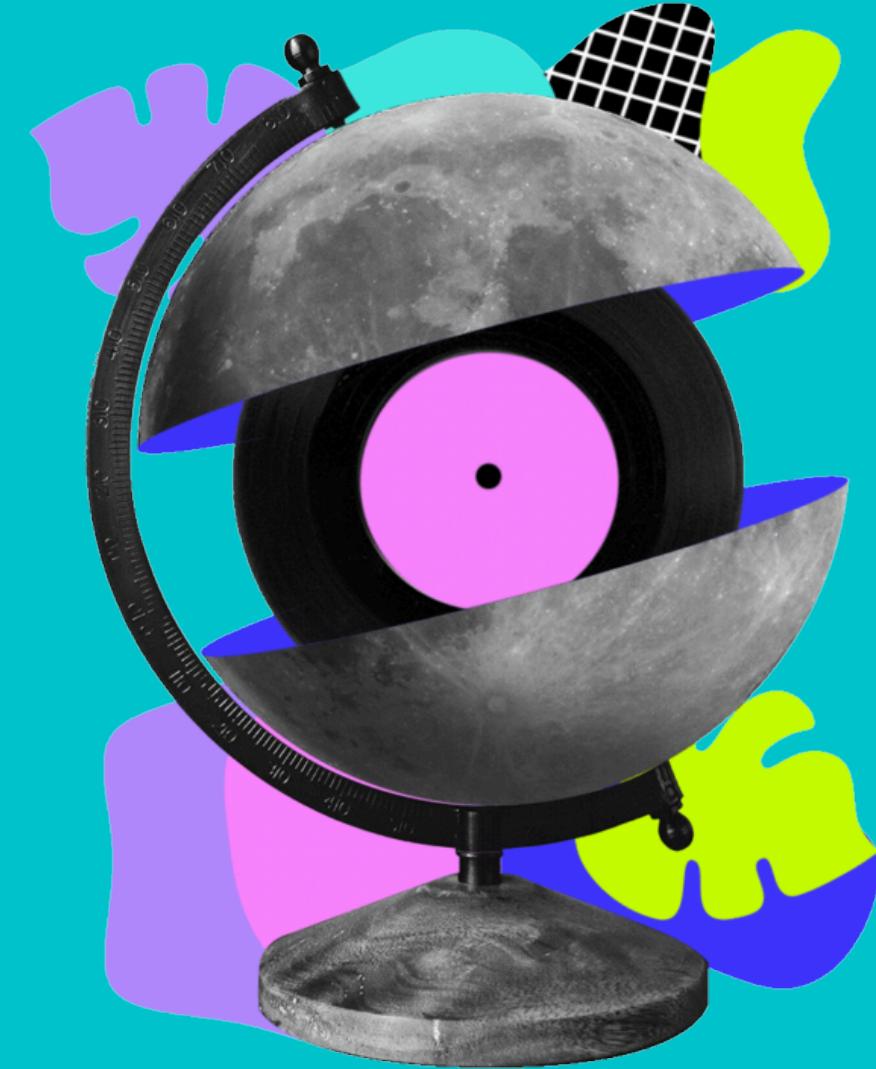
I'm Abdulrahman Tarek. I'm excited to share my insights and projects with you.



# INTRODUCTION

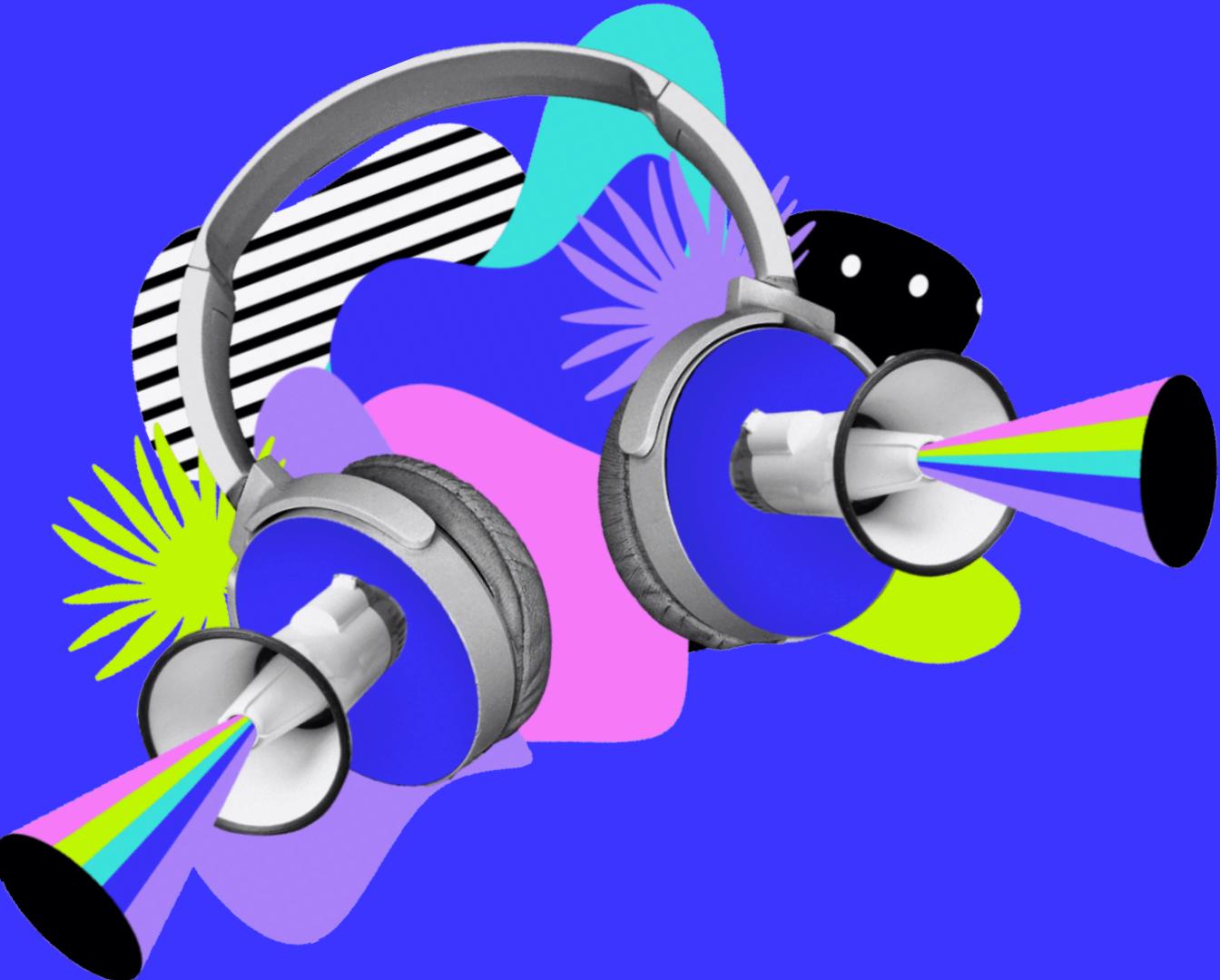


..



## HELLO EVERYONE

In this project, we worked with a dataset containing information about various songs. The dataset includes several features that help us analyze and recommend music effectively.



# **DATASET FEATURES**

## **1. ARTIST**

The name of the artist who performed the song. Useful for categorizing and recommending songs by artist.

## **2. SONG**

The title of the song, essential for identification and searching.

## **3. TEXT**

The song lyrics, used for text analysis like sentiment evaluation and similarity comparisons.



# DATA PROCESSING

**TO MAKE MEANINGFUL  
RECOMMENDATIONS, WE  
PERFORMED SEVERAL  
STEPS:**

## **1. TOKENIZATION AND STEMMING**

We tokenized the song lyrics into individual words and applied stemming to reduce words to their root forms. This helps in normalizing the text and improving the accuracy of our analysis.

## **2. TF-IDF VECTORIZATION**

We used TF-IDF to convert the text data into numerical vectors, which allows us to quantify the importance of words in each song. This is essential for calculating similarity between songs.



# PROJECT IMAGE

## Music Recommender System

Type or select a song from the dropdown

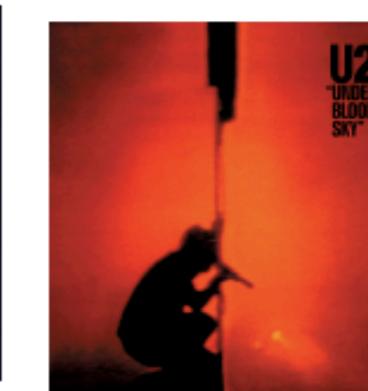
Cassandra

Show Recommendation

So Sad About Us    11 O'clock Tick    Waiting Undergr<sup>n</sup> Slowly Goes The    South Park Them<sup>n</sup>



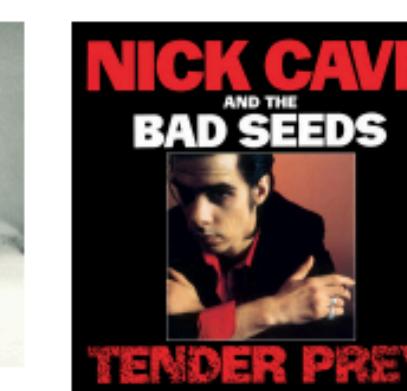
[Open in Spotify](#)



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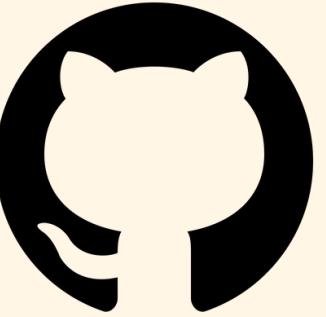


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**THANK YOU**