



# Spotify Recommendation System: User Manual

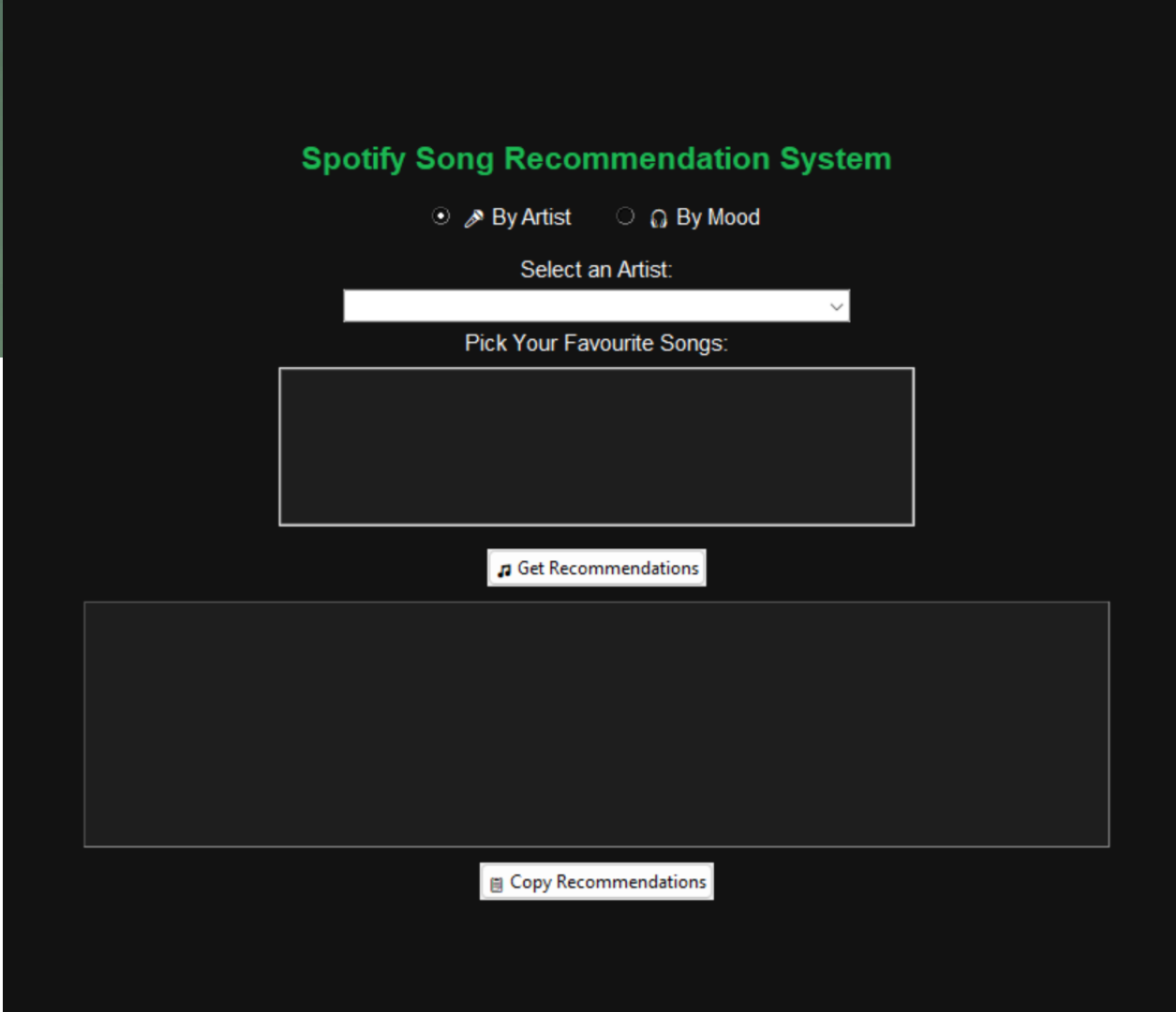
ADVAIT KARAN ANAND

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# App Introduction

- Spotify Recommendation System
- Helps explore new artists that have a similar style
- Spotify API
- plotly.io, warnings, pandas, plotly.express, plotly.graph\_objects
- tkinter: Front-end GUI



The screenshot shows a web application titled "Spotify Song Recommendation System" in green text. It features two radio buttons for selection: "By Artist" (selected) and "By Mood". Below these is a text input field labeled "Select an Artist:". Underneath the input field is a label "Pick Your Favourite Songs:" followed by a large, empty rectangular box for song selection. A "Get Recommendations" button is positioned below the song selection box. At the bottom of the interface is a large, empty rectangular box for displaying recommendations, with a "Copy Recommendations" button located directly beneath it.

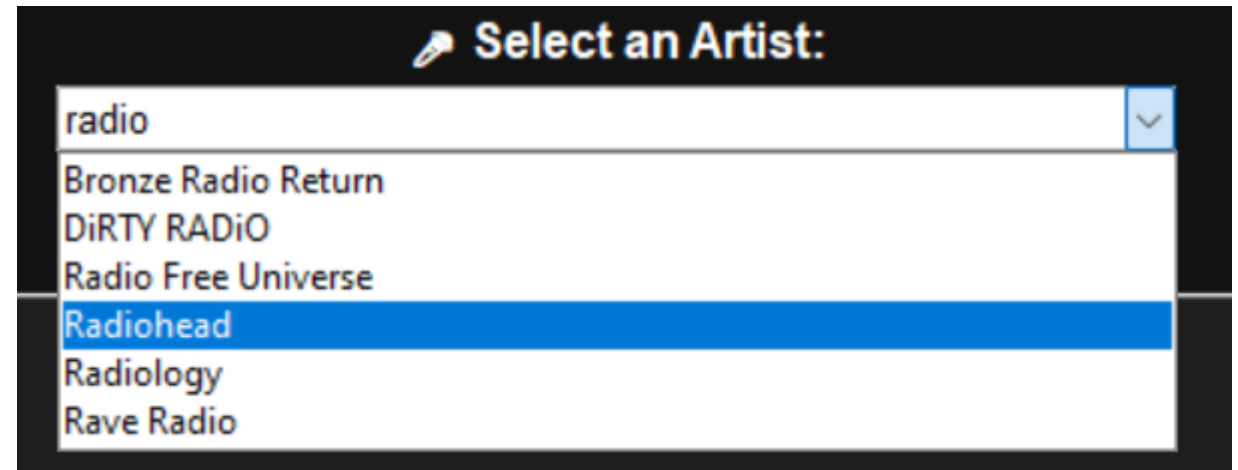
How to  
use the  
app



# BY ARTIST

## Choose your artist

Users can search for their favourite artists from a dropdown menu using the search bar

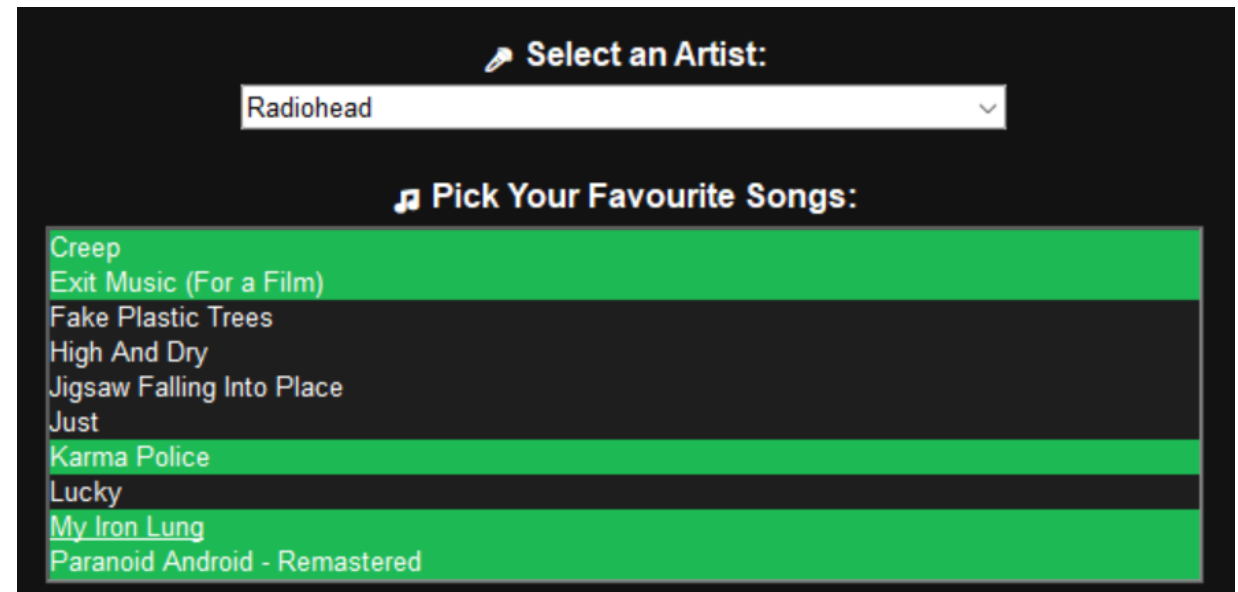


The screenshot shows a search interface with a dark background. At the top, there is a title "Select an Artist:" with a magnifying glass icon. Below the title is a search bar containing the text "radio". A dropdown menu is open, displaying a list of search results. The results are: "Bronze Radio Return", "DiRTY RADiO", "Radio Free Universe", "Radiohead" (which is highlighted with a blue background), "Radiology", and "Rave Radio".

Search Results
radio
Bronze Radio Return
DiRTY RADiO
Radio Free Universe
Radiohead
Radiology
Rave Radio

# Select your favourite songs

After selecting their favourite artist, users can select their favourite songs from the catalogue.



The screenshot shows a dark-themed user interface for selecting an artist and their favorite songs. At the top, there is a label "Select an Artist:" with a key icon. Below it is a white dropdown menu with "Radiohead" selected. Underneath, there is a label "Pick Your Favourite Songs:" with a music note icon. Below this label is a list of songs, each on a separate line. The songs are: "Creep", "Exit Music (For a Film)", "Fake Plastic Trees", "High And Dry", "Jigsaw Falling Into Place", "Just", "Karma Police", "Lucky", "My Iron Lung", and "Paranoid Android - Remastered". The first six songs are on a dark background, while the last four are on a green background.

Select an Artist:

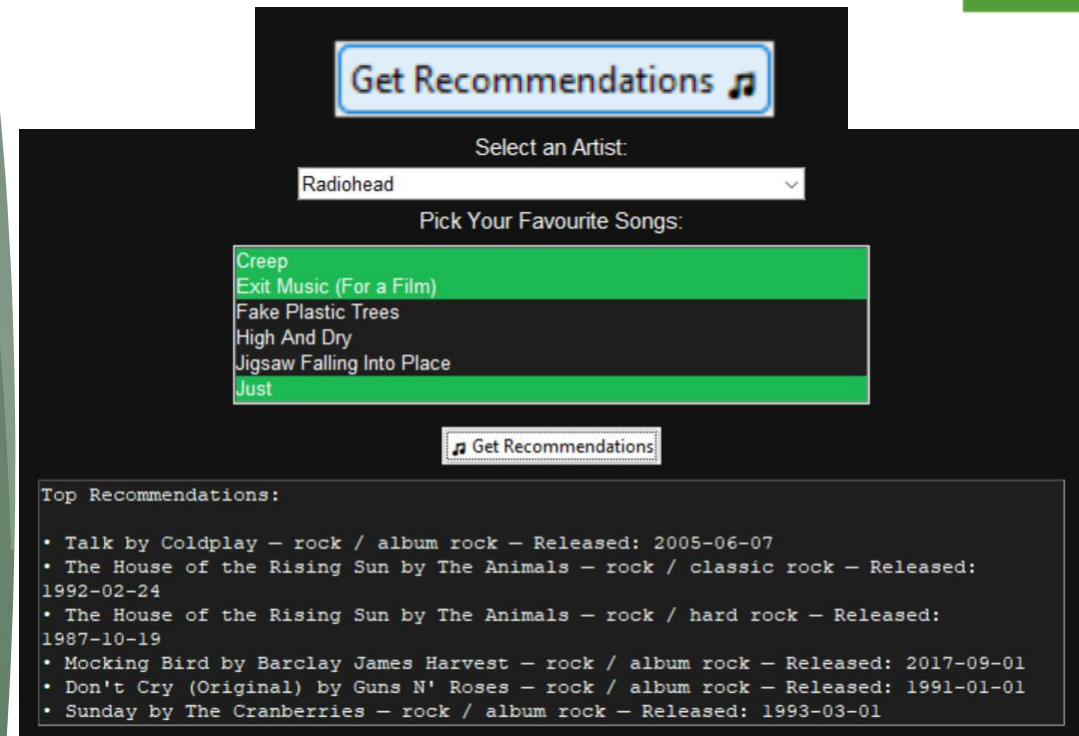
Radiohead

Pick Your Favourite Songs:

- Creep
- Exit Music (For a Film)
- Fake Plastic Trees
- High And Dry
- Jigsaw Falling Into Place
- Just
- Karma Police
- Lucky
- My Iron Lung
- Paranoid Android - Remastered

# Get Recommendations

Users can now click “Get Recommendations” to see similar tracks, their artist, genre, subgenre and release date.



The screenshot shows a web interface with a dark background. At the top, there is a blue button with the text "Get Recommendations" and a musical note icon. Below this, there is a label "Select an Artist:" followed by a dropdown menu showing "Radiohead". Underneath the dropdown is the label "Pick Your Favourite Songs:" followed by a list of songs: "Creep", "Exit Music (For a Film)", "Fake Plastic Trees", "High And Dry", "Jigsaw Falling Into Place", and "Just". The first and last items in the list are highlighted in green. Below the list is another button with the text "Get Recommendations" and a musical note icon. At the bottom, there is a section titled "Top Recommendations:" followed by a list of recommendations, each with the track name, artist, genre, subgenre, and release date.

Get Recommendations

Select an Artist:

Radiohead

Pick Your Favourite Songs:

- Creep
- Exit Music (For a Film)
- Fake Plastic Trees
- High And Dry
- Jigsaw Falling Into Place
- Just

Get Recommendations

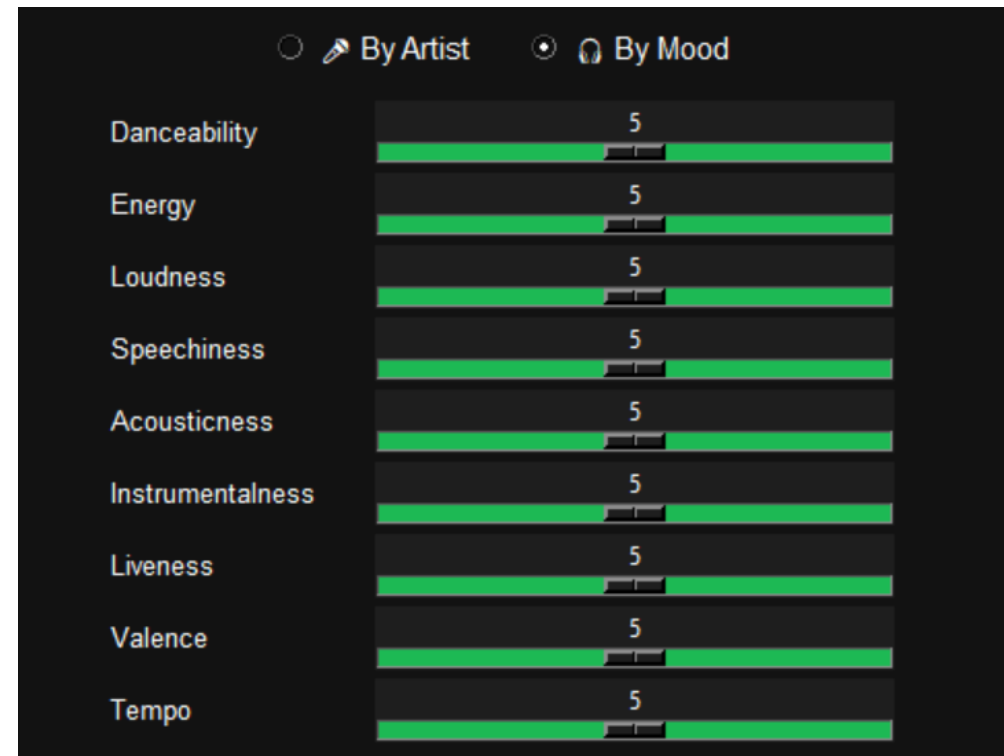
Top Recommendations:

- Talk by Coldplay – rock / album rock – Released: 2005-06-07
- The House of the Rising Sun by The Animals – rock / classic rock – Released: 1992-02-24
- The House of the Rising Sun by The Animals – rock / hard rock – Released: 1987-10-19
- Mocking Bird by Barclay James Harvest – rock / album rock – Released: 2017-09-01
- Don't Cry (Original) by Guns N' Roses – rock / album rock – Released: 1991-01-01
- Sunday by The Cranberries – rock / album rock – Released: 1993-03-01

# BY MOOD

## Set parameters

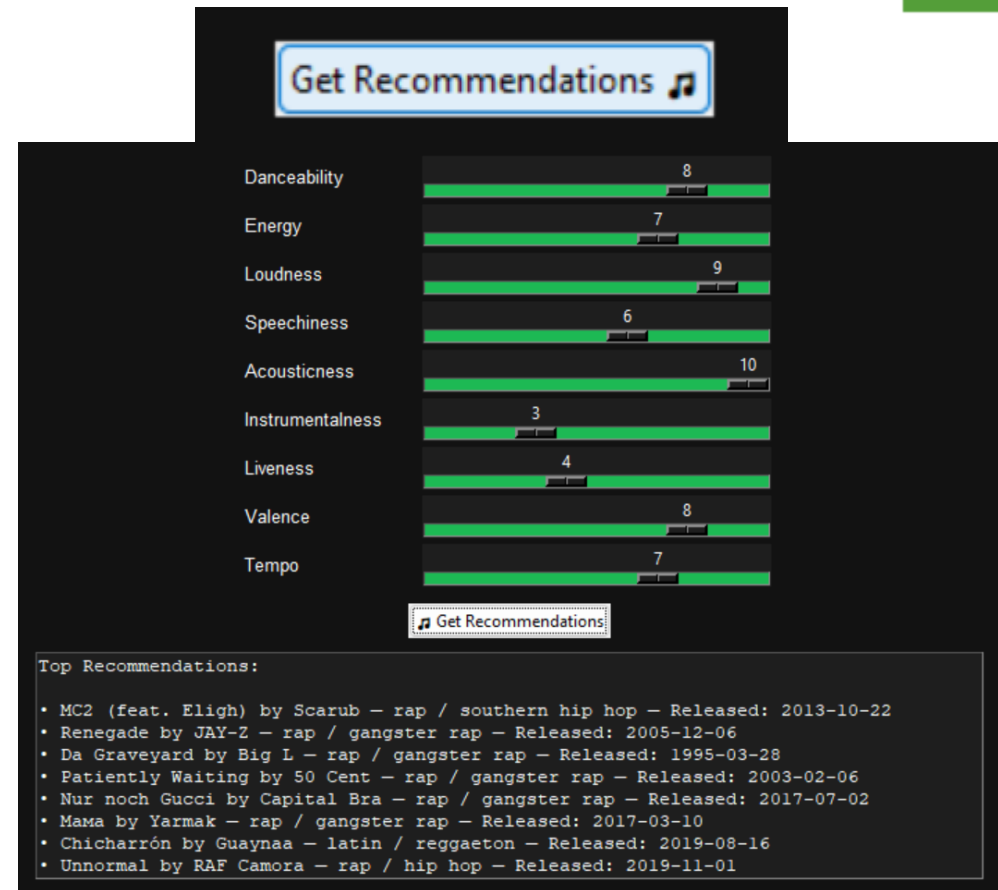
Users can use sliders to set what parameters of songs they like most or want at a given moment





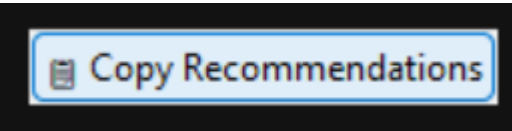
# Get Recommendations

Users can now click “Get Recommendations” to see similar tracks, their artist, genre, subgenre and release date.



# Copy Recommendations

Once they get recommendations, users can copy them to their clipboard by hitting "Copy Recommendations"



Copy Recommendations

Top Recommendations based on your selection:

- Ode To My Family by The Cranberries – rock / album rock – Released: 1994-10-03
- The House of the Rising Sun by The Animals – rock / hard rock – Released: 1987-10-19
- The House of the Rising Sun by The Animals – rock / classic rock – Released: 1992-02-24
- Talk by Coldplay – rock / album rock – Released: 2005-06-07
- High Enough by Damn Yankees – rock / hard rock – Released: 1990
- High Enough by Damn Yankees – rock / album rock – Released: 1990
- Mull Of Kintyre by Wings – rock / album rock – Released: 2001-05-07
- Sunday by The Cranberries – rock / album rock – Released: 1993-03-01
- Everything I Said by The Cranberries – rock / album rock – Released: 1994-10-03
- Dancing With The Moonlit Knight - Remastered 2008 by Genesis – rock / album rock – Released: 1973-10-12

# Video Demonstration

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<https://youtu.be/7c0YeBiEEx8>



# Contact for questions, concerns or suggestions

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Special thanks to:  
*@joebeachcapital* on Kaggle (API)  
*@ziaadhosny* on Kaggle (BACKEND)