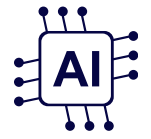Recommender system

Generative AI

Music Recommendation APIs

LAST.FM

Last.fm is a website that has a huge collection of music. It allows users to create their own profiles, track the music they listen to and access other exciting services such as personalized music charts, recommendations, and interaction with other music lovers.

API features

- Access extensive music data for your application. (playlists, albums, artists, users, events....)
- Utilize a RESTful API for seamless integration.
- Access user-related details for personalized experiences.

Price

Last.fm provides its API to developers for free. However, users who want to access additional features, such as more statistics, historical reports, and ad-free browsing, need to go for the paid option, which is priced at $3 per month.

Popularity

In the U.S. alone, it's estimated that about 170,000 households visited the site in 2018.

iTunes API

iTunes is an Apple, Inc.-owned media management platform that is primarily used to play and manage both audio and video music files. The software can be used on both Windows and Macintosh operating systems. The iTunes Store allows users to buy the content that they can play using the iTunes software.

API features

- Enable search functionality in your application using the iTunes Search API.
- Place promotional content on your website, such as previews of music videos, songs, or album arts.
- Earn commissions by participating in the Affiliate Program. If a user clicks on promotional content and makes a purchase in the iTunes Store, you receive a commission.

Price

The iTunes Search API is offered for free.

Popularity

iTunes is a popular service for playing movies, TV shows, and music. As of May 2018, the digital entertainment service had more than 50 million global paying subscribers.

Deezer

Deezer is an online music streaming platform that has an extensive collection of different types of music. The service allows users to listen to their favorite music on multiple devices, even offline.

API features

enables you to access the platform's data and escalate the functionality of your application. Some of the data you can access include albums, playlists, radio, artists, track users, comments, search, and editorial.
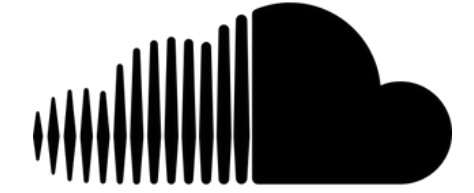
Price

The API is provided for free. Users can enjoy Deezer online music for free or opt for the premium services which starts from $4.99 per month.

Popularity

Deezer is a widely used across the world for listening to online music. As of November 2018, it had more than 14 million registered active users in more than 180 countries.

SoundCloud API

SoundCloud is a digital music streaming service that allows users to listen to a wide collection of songs on the web and mobile devices. Users can utilize the platform to upload, share, and promote their music items from around the world.

API features

The SoundCloud API allows you to create powerful applications that can escalate sound on the web to higher heights. The API provides several endpoints for completing various tasks, including uploading and sharing sound to social online networks, playing sounds, integrating comments, integrating follow and like features, and searching for sounds.

Price

You'll need to sign up for a SoundCloud account before accessing the API. The SoundCloud Basic account is provided for free. However, to access better features such as unlimited upload time and full statistics, you'll need the SoundCloud Pro account, which starts from €8.25 per month.

Popularity

SoundCloud is popular across the world. It has more than 175 million registered users.

Apple Music API

Apple Music is another Apple, Inc.-owned music service that allows users to stream videos and music online and offline. The service works flawlessly with the iTunes library, letting users enjoy a personalized music collection.

API features

API features: It's an iOS-only and web-only service that allows you to retrieve information about Apple Music media. You can get details about albums, playlists, artists, and songs. The API also supports playback of Apple Music. Furthermore, if a user grants you the access rights, you can retrieve and amend data related to that user.

Price

The API is offered free to participants in the Apple's Affiliate Program, which allows them to earn commissions on any qualifying sales.

Popularity

Apple Music is a popular service around the world, especially for iOS users. As of December 2018, the platform had 56 million subscribers.

Musixmatch API

Musixmatch is a music service that allows users to search and share their favorite lyrics and translations in more than 50 unique languages.

API features

The Musixmatch API allows you to integrate lyrics into your application. The API has methods for accomplishing various tasks, including getting a list of the top artists per country, getting a list of the top songs per country, searching for tracks, getting information about tracks, and getting translated lyrics for any language. Musixmatch also supports other popular music streaming services like Spotify and iTunes.

Price

You can test the API for free, but you'll be limited to 2,000 calls per day. To access better features such as 50,000 calls per day and full lyrics, you'll need to go for any of the paid plans, which starts from $1.5 CPM (Cost Per Impression) per month.

Popularity

Musixmatch has a large collection of more than 14 million lyrics from around the world. With an audience of more than 30 million fans, the platform is popular around the world.

Shoutcast API

Although Shoutcast is not primarily a music service, it provides an online platform for broadcasters to stream their radio content to any device, globally.

API features

The Shoutcast API allows you to access its directory of radio stations and integrate them into your applications, websites, mobile platforms, and other devices. With the API, you can search for your favorite station, access what is currently playing, sort the stations according to their popularity, and complete several other tasks.

Price

The API is provided free of charge to Shoutcast partners.

Popularity

More than 50,000 radio stations around the world are utilizing Shoutcast to broadcast their content. Therefore, you cannot fail to find a popular radio station and enable your users to listen to music.

Mixcloud API

Mixcloud is an online-based service that lets registered users to browse and stream music available on the platform. Users are allowed to upload various types of content, including podcasts, DJ mixes, and radio shows. Additionally, users can use the platform's own social networking widget to distribute their content across the Internet.

API features

The Mixcloud API enables developers to create applications that can access Mixcloud's database. With the API, you can complete various tasks, including displaying information about users, searching the available music collections, uploading shows, and editing uploads. You can also use the Mixcloud Widget JavaScript API to obtain the code for embedding the Mixcloud widget on websites.

Price

The API is provided for free.

Popularity

Mixcloud is massively used by music lovers. The platform records more than 17 million active users per month.

Chartmetric API

Chartmetric is an online tool that provides music and artists analytics data collected from a wide range of external sources.

API features

The Chartmetric API allows you to track, analyze, and measure music data of playlists and artists. This way, you'll stay informed and make productive decisions. With the API, you can get extensive music analytics data, including an album's statistics, an artist's fan metrics, a playlist curator chart, a playlist's chart, and a playlist's metadata.

Price

The API is provided for free. However, to access advanced features, you'll need to register for any of its paid plans, which starts from $80 per user per month.

Popularity

Chartmetric is rising in popularity fast. Currently, it has more than 1.3 million artists, 1 million playlists, and 300,000 curators distributed across various popular online streaming platforms such as Apple Music, Spotify, and Deezer.

Spotify API

Spotify is a platform for accessing millions of songs and playing them on the web, desktop, or mobile devices

API features

The Spotify APIs and SDKs allow you to create amazing experiences for millions of music lovers around the world. With the API, you can read the audio features of songs and analyze their various attributes such as danceability and valence. You can also integrate Spotify music into your application, serve recommendations to users, and search and manage artists, albums, tracks, or playlists.

Price

Spotify provides its API to developers for free. However, users who want to access extra features, such as ad-free access and offline playing of music, need to register for the premium service, which starts from $9.99 per month.

Popularity

Spotify is a very popular digital music platform. Currently, it boasts of more than 180 million music fans in most countries around the world.

Request: `GET` `/recommendations`

limit **integer**

This parameter specifies the maximum number of recommended tracks that should be returned by the Spotify API. It determines the size of the list of recommended tracks.

market **string**

This parameter specifies the ISO 3166-1 alpha-2 country code for the market in which the recommended tracks should be available. It filters the recommendations based on the availability of tracks in that market.

seed_artists **string**

This parameter accepts a comma-separated list of Spotify IDs for seed artists. These artists serve as the inspiration for generating the recommended tracks. The recommendations will be influenced by the music of these artists.

seed_genres **string**

This parameter accepts a comma-separated list of genre names. It serves as another way to influence the recommendations by specifying the genres the user is interested in. The recommendations will be drawn from the specified genres.

min/max/target attributes

Acousticness: A measure of how acoustic a track is.

Danceability: A measure of how suitable a track is for dancing.

Duration: The length of the track in milliseconds.

Energy: A measure of the intensity and activity of a track.

Key: The key of the track (e.g., C major).

Liveness: A measure of the presence of live performance elements in the track.

Loudness: The overall loudness of the track.

Mode: Indicates whether the track is in a major or minor key.

Popularity: The popularity score of the track.

Speechiness: A measure of the presence of spoken words in the track.

Tempo: The tempo of the track in beats per minute (BPM).

Time signature: The time signature of the track.

Valence: A measure of the musical positiveness conveyed by a track.