Spotify knows how I'm feeling now... via Semantic Kernel

Justin Yoo | Principal Cloud Advocate | Microsoft

@justinyoo

in @justinyoo

₩ @justinchronicles.net



Background





kpop









Home



Shorts



Subscriptions



You



History



K-Pop Hits 2024

Universal Music Group · Playlist ❷ Updated 3 days ago

LE SSERAFIM (르세라핌) 'CRAZY' OFFICIAL MV • 2:50 BOYNEXTDOOR (보이넥스트도어) 'Nice Guy' Official MV • 3:14

VIEW FULL PLAYLIST



Permission to Dance • 3:08

How You Like That • 3:02

VIEW FULL PLAYLIST





















Playlists All

Songs

Artists

Podcasts & Shows

Albums

Profiles

Audiobooks



















K-Pop ON! (온) By Spotify



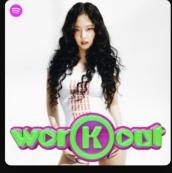
BEST KPOP 2024 -**TOP HITS** By nbe3awe



KPOP HITS (ALL TIME) 2010-2024 By nbe3awe



Kpop 80s 90s vibe korean By 00



WORKOUT By Spotify



K-Pop Rising By Spotify



Energetic K-Pop Mix By Spotify

DrunKen Confession

Kim MinSeok



Dance K-Pop Mix By Spotify



OLD KPOP (2010-2014)



NEW KPOP 2024 // DAILY UPDATES



kpop playlist | iconic & hits songs \heartsuit



Women of K-Pop By Spotify





























But they're slightly off my preferences... and



But they're slightly off my preferences... and not up-to-date

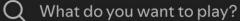


02 Research











6 days ago

6 days ago

6 days ago

6 days ago







List ⋮

3:24

2:51

3:30

4:11





















Playlist

Billboard Hot 100

The official Billboard Hot 100 features this week's most popular songs across all genres, ranked by radio airplay monitored by Nielsen BDS,...

Billboard • 1,803,275 saves • 100 songs, about 5 hr





(Album Date added



Title

Love Somebody

Morgan Wallen



A Bar Song (Tipsy)

■ Music video • Shaboozey



BIRDS OF A FEATHER

► Music video • Billie Eilish



Die With A Smile







Die With A Smile

Love Somebody

A Bar Song (Tipsy)

HIT ME HARD AND SOFT



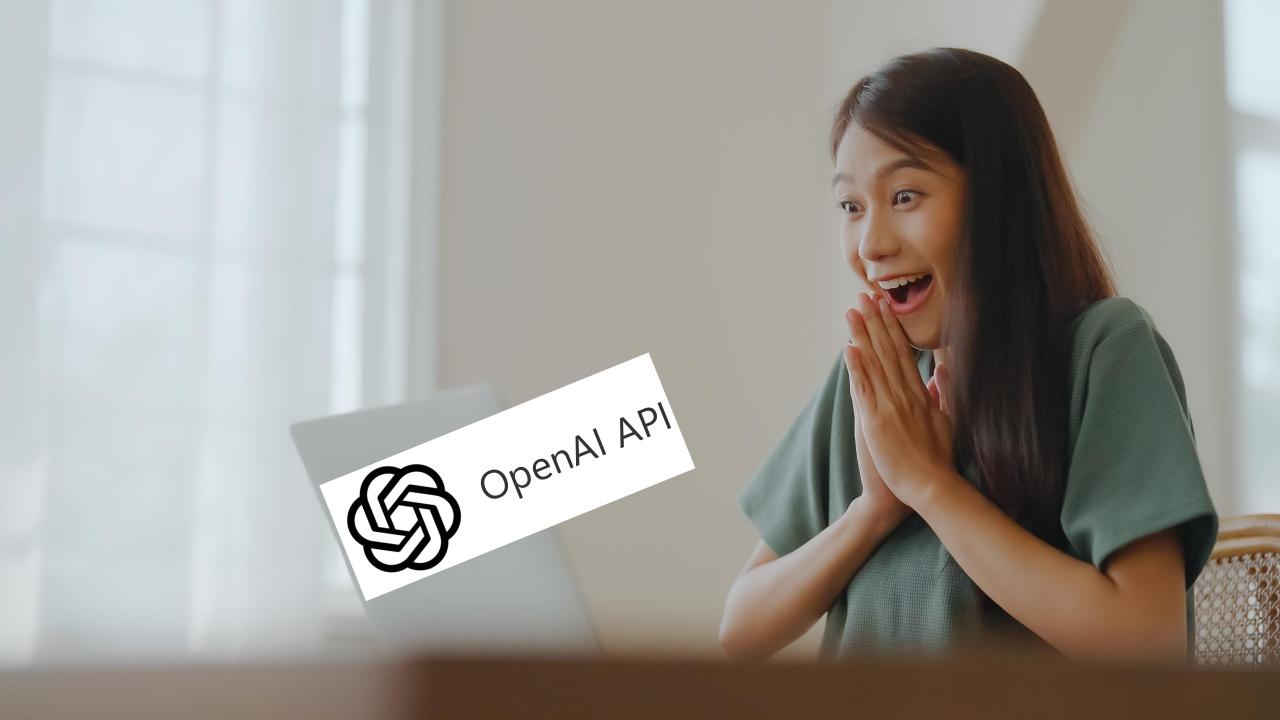


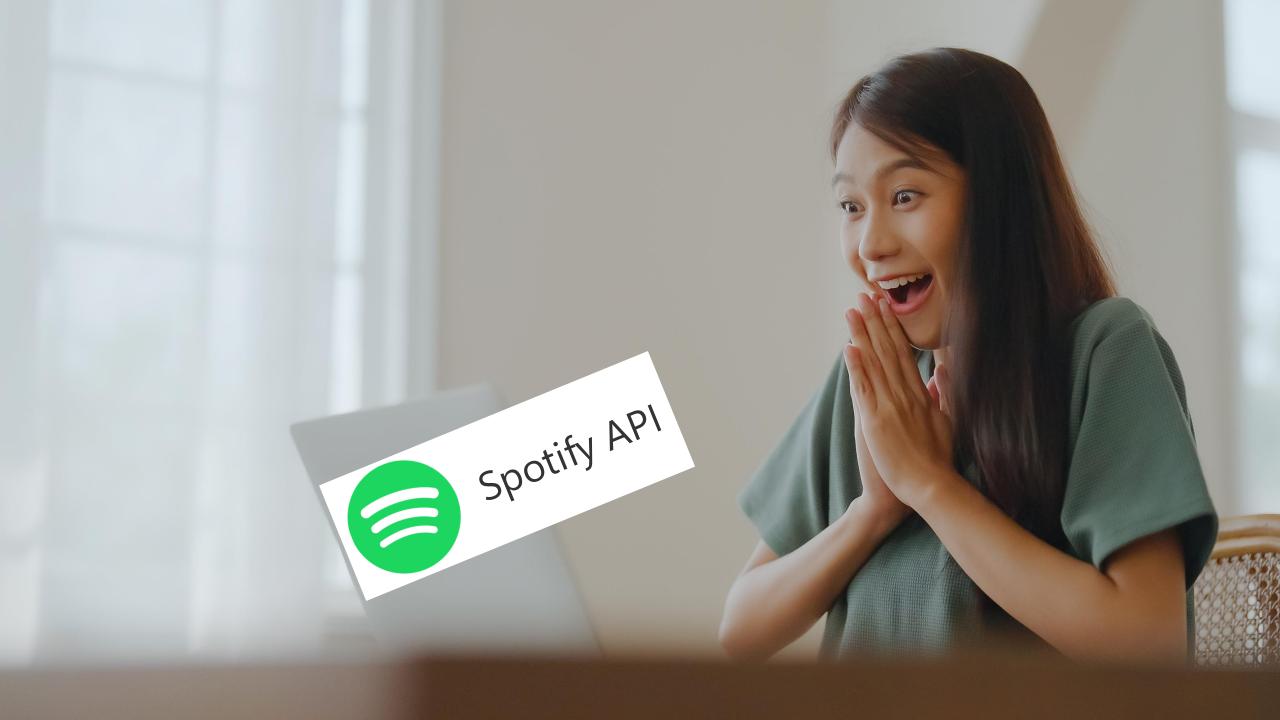


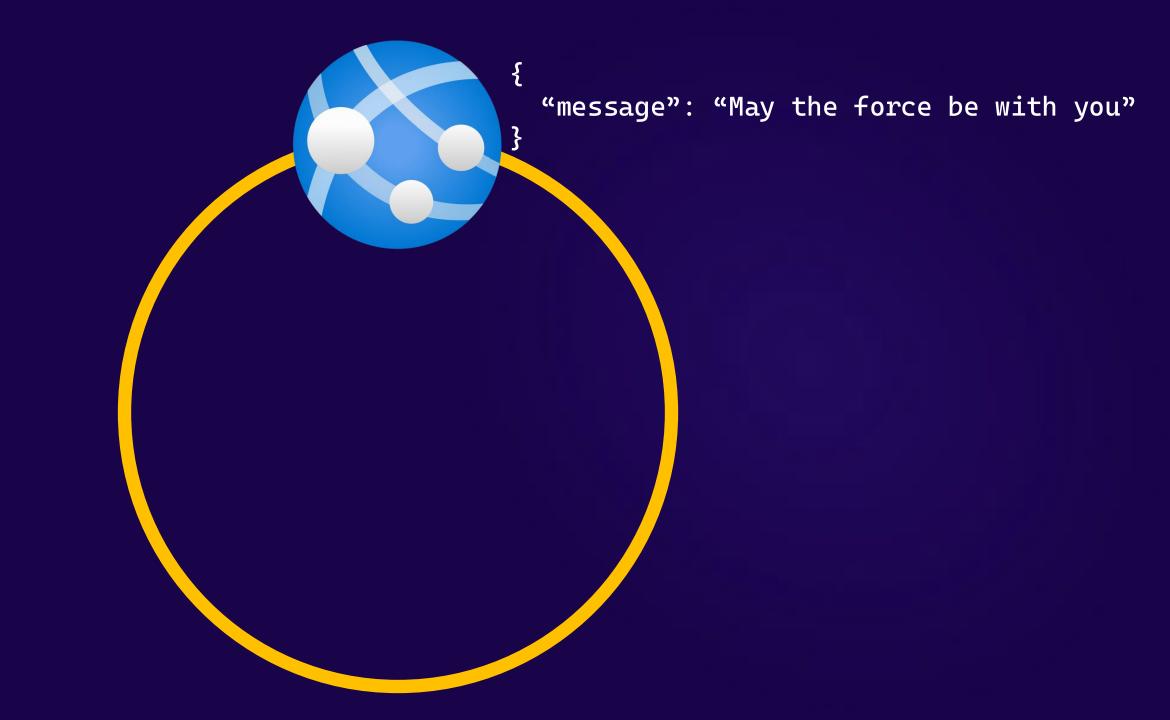




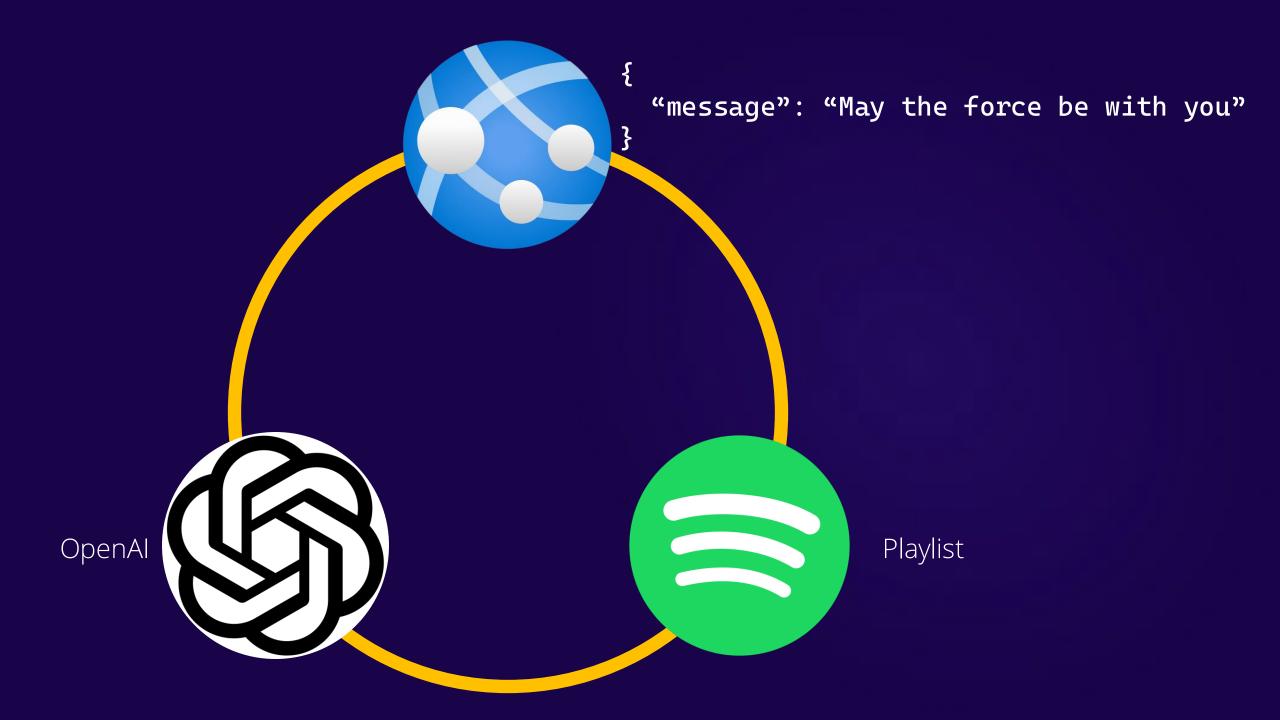












- Web API
- Overview
- Getting started
- Concepts
- Tutorials
- ► How-Tos

REFERENCE

- Albums
- Artists
- Audiobooks
- Categories
- Chapters
- Episodes
- Genres
- Markets
- Player

Web API • References / Tracks / Get Track's Audio Features

Get Track's Audio Features A OAuth 2.0

Get audio feature information for a single track identified by its unique Spotify ID.

- Important policy note
- Spotify content may not be used to train machine learning or Al model

Request

/audio-features/{id} **GET**

string Required

The Spotify ID for the track.

Example: 11dFghVXANMlKmJXsNCbNl

Response 403

```
curl --request GET \
     --url
https://api.spotify.com/v1/audio-
features/5vNRhkKd0yEAg8suGBpjeY \
     --header 'Authorization:
Bearer 1POdFZRZbvb...ggillRxMr2z'
```

RESPONSE SAMPLE

```
"acousticness": 0.0283.
      "analysis url":
"https://api.spotify.com/v1/audio-
anatysis/SvivkirkhuuyEAgosuGDpjet,
      "danceability": 0.777,
      "energy": 0.783,
      "id": "5vNRhkKd0yEAg8suGBpjeY",
      "instrumentalness": 0,
      "key": 0,
      "liveness": 0.355,
11
      "loudness": -4.477.
12
      "mode": 0,
13
      "speechiness": 0.26,
14
      "tempo": 149.027,
15
      "time_signature": 4,
      "track href":
"https://api.spotify.com/v1/tracks/5vN
RhkKd0yEAg8suGBpjeY",
      "type": "audio_features",
      "uri":
"spotify:track:5vNRhkKd0yEAg8suGBpjeY"
      "valence": 0.939
19
```

Danceability 👉 good for dance or not

Danceability 👉 good for dance or not Valence positive or negative



03 Solution



May the force be with you Solidarity

- Solidarity
- Danceability: 0.50 0.70
- Valence: 0.60 0.80

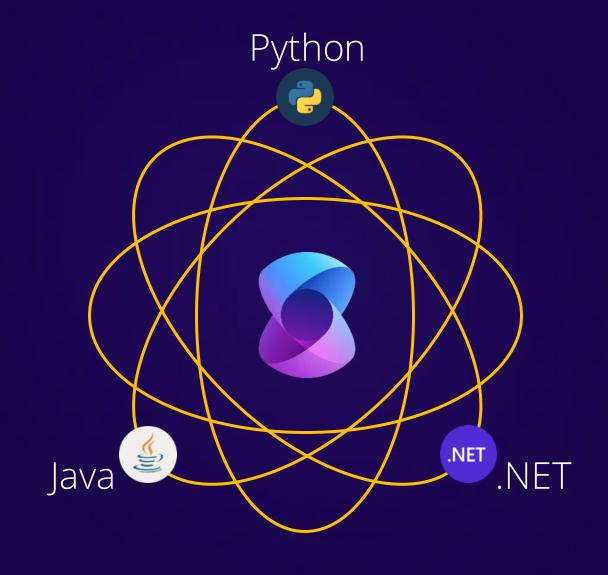
- Solidarity
- Danceability: 0.50 0.70
- Valence: 0.60 0.80
- Pick up songs

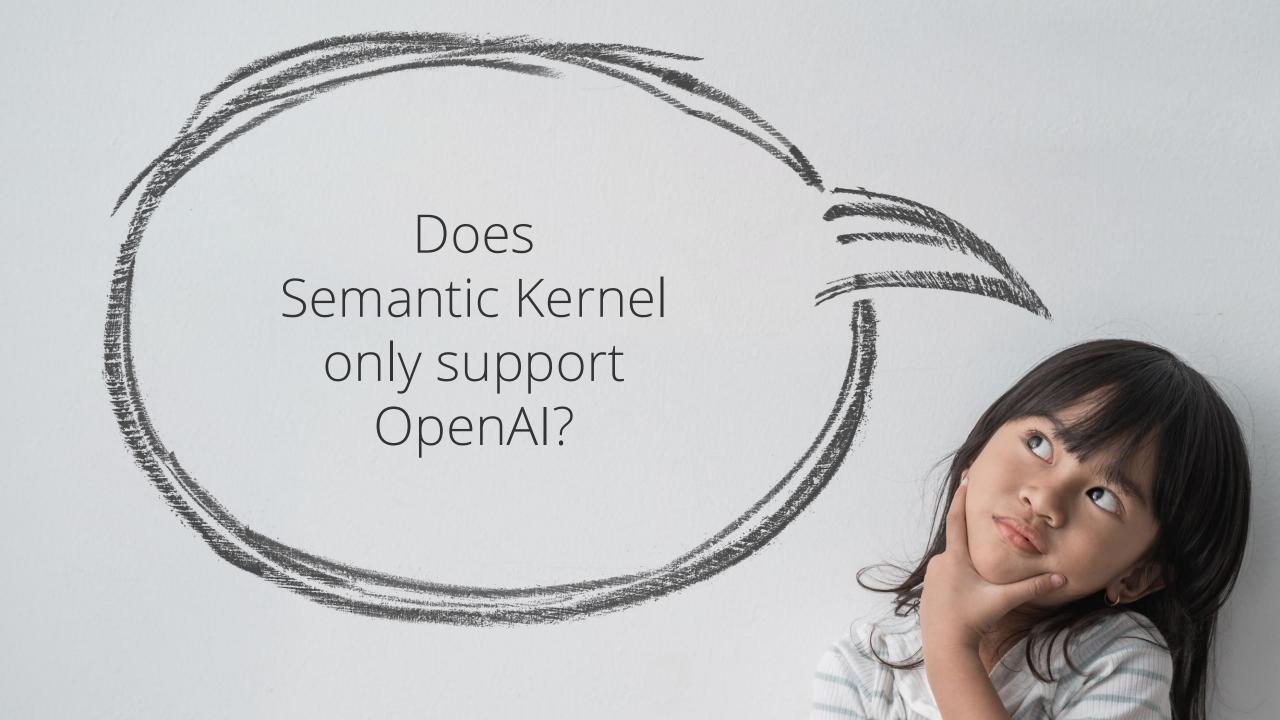
- Solidarity
- Danceability: 0.50 0.70
- Valence: 0.60 0.80
- Pick up songs Playlist

- Solidarity
- Danceability: 0.50 0.70
- Pick up songs Playlist

Semantic Kernel

Semantic Kernel is lightweight open-source orchestration middleware that lets you easily add Al to your apps





OpenAl / Azure OpenAl / Ollama Hugging Face MistralAl Google Gemini GitHub Models

OpenAl / Azure OpenAl / Ollama Hugging Face MistralAl Google Gemini GitHub Models



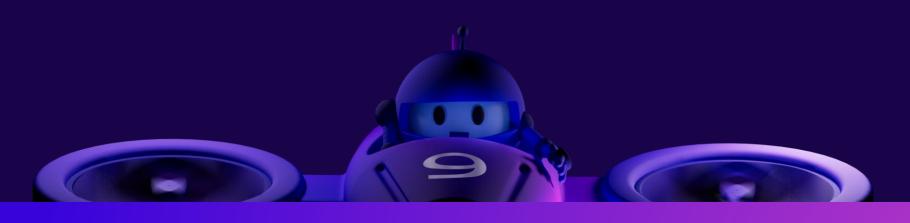
Demo: Let Spotify create a playlist based on my sentiment



Polyglot Notebooks that supports Python, R, C#, JavaScript, etc

Summary

Create an instance of SK Connect to LLMs Plugins & Agents



Get.NET 9





aka.ms/semantic-kernel

Thank you



Spotify knows how I'm feeling now... via Semantic Kernel

Justin Yoo | Principal Cloud Advocate | Microsoft

- @justinyoo
- in @justinyoo
- ₩ @justinchronicles.net

