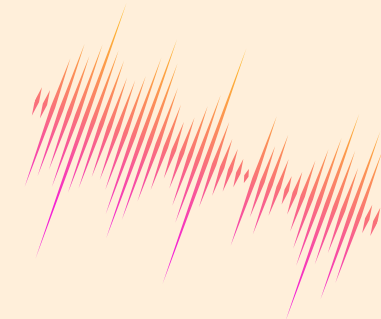


# CREATING PLAYLIST WITH MOOSIC



Presented by: Suparna and Georg



# INTRODUCTION



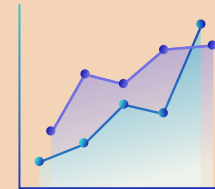
## Project Overview: Clustering Spotify Songs

-  Optimization

- Execution



- Selection

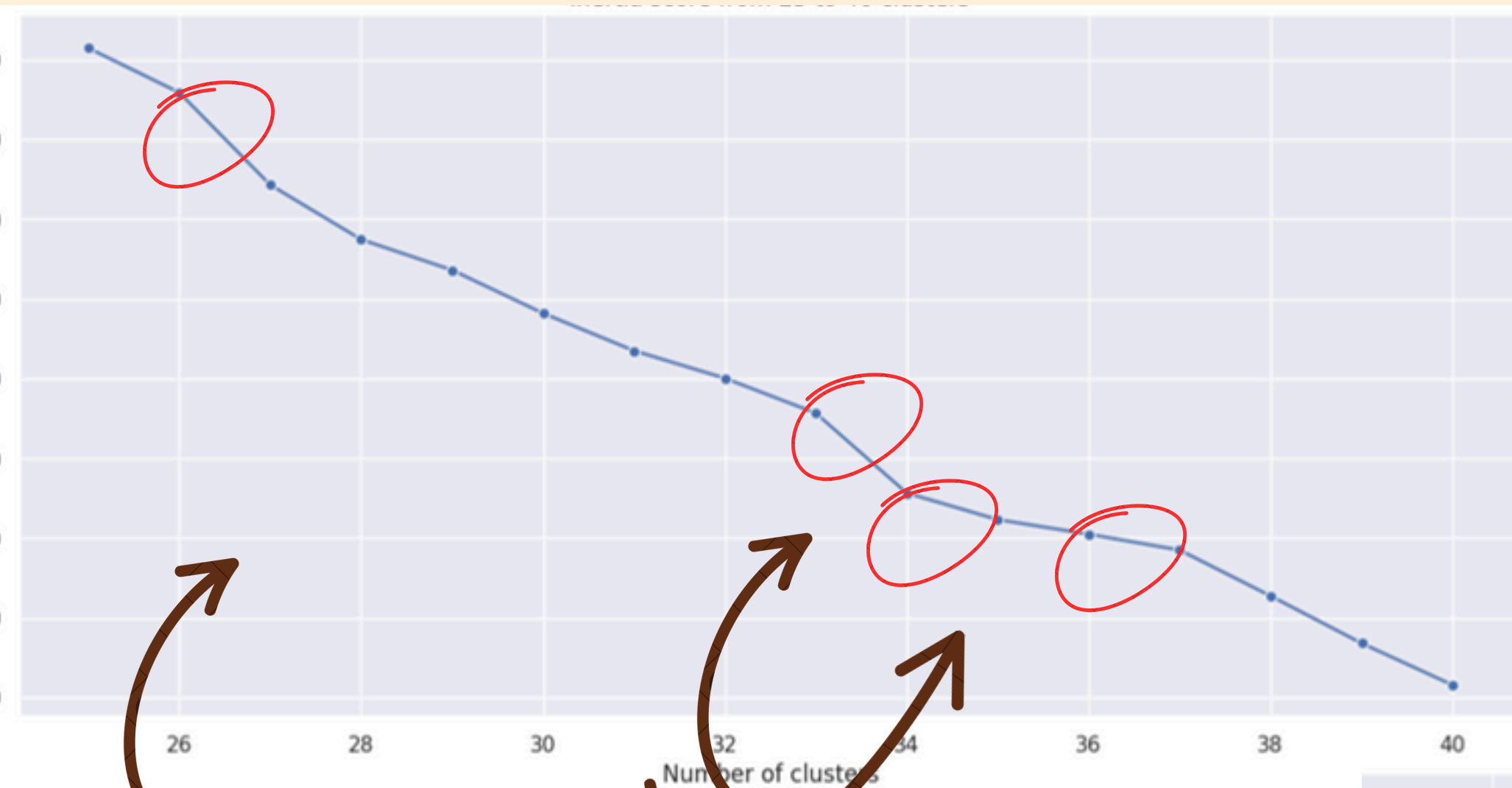


- Clustering



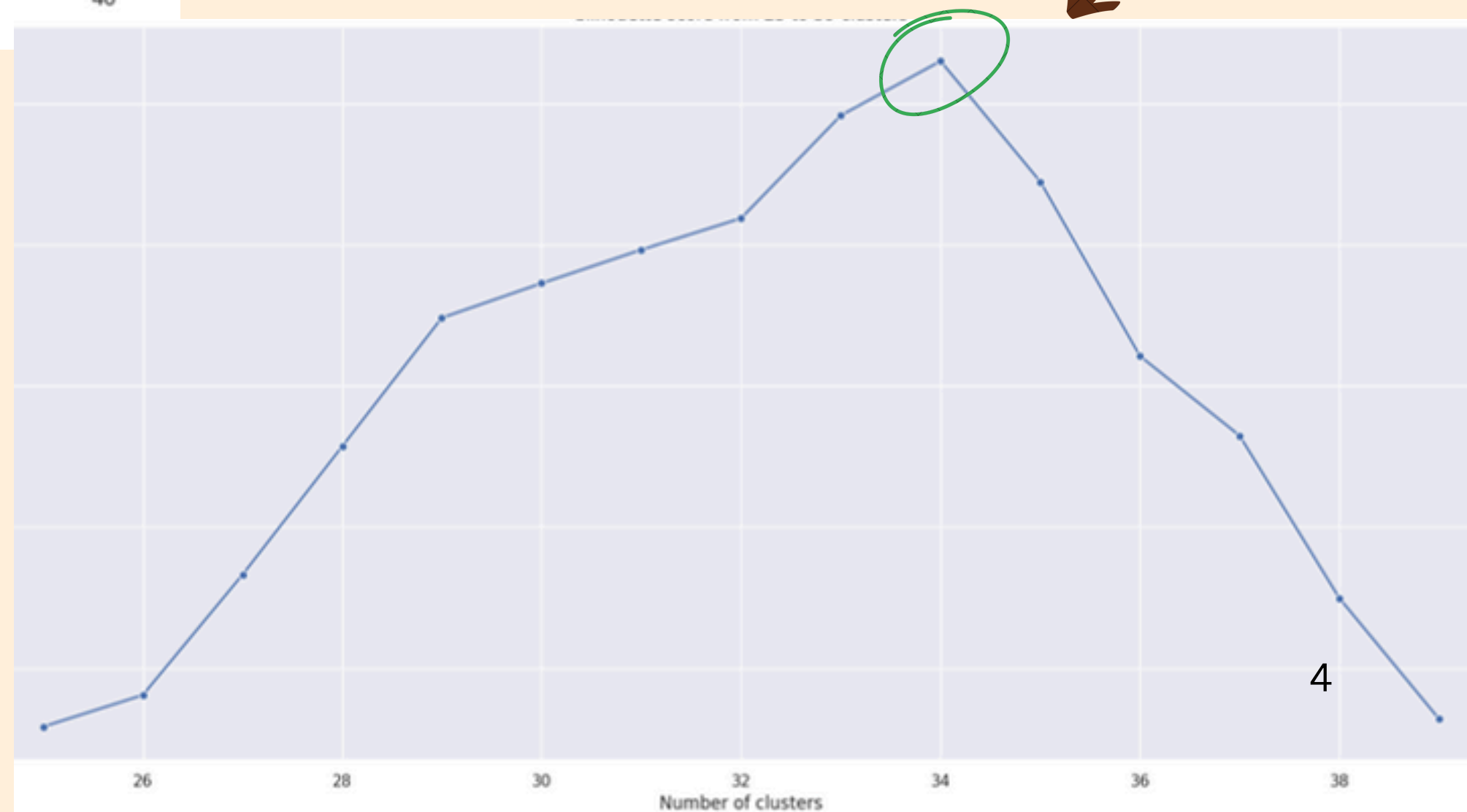
-  Roadmap



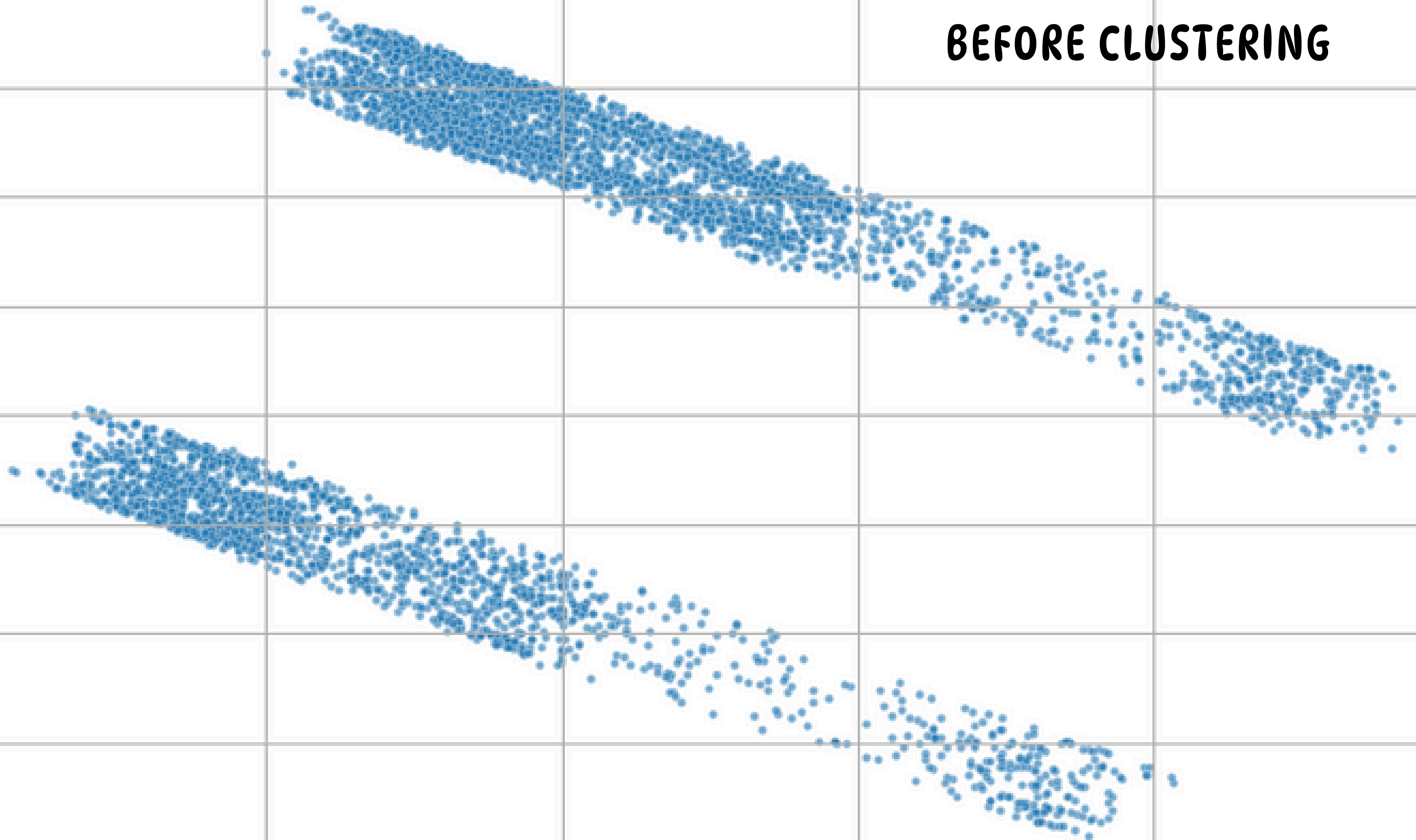


too many similar points to decide

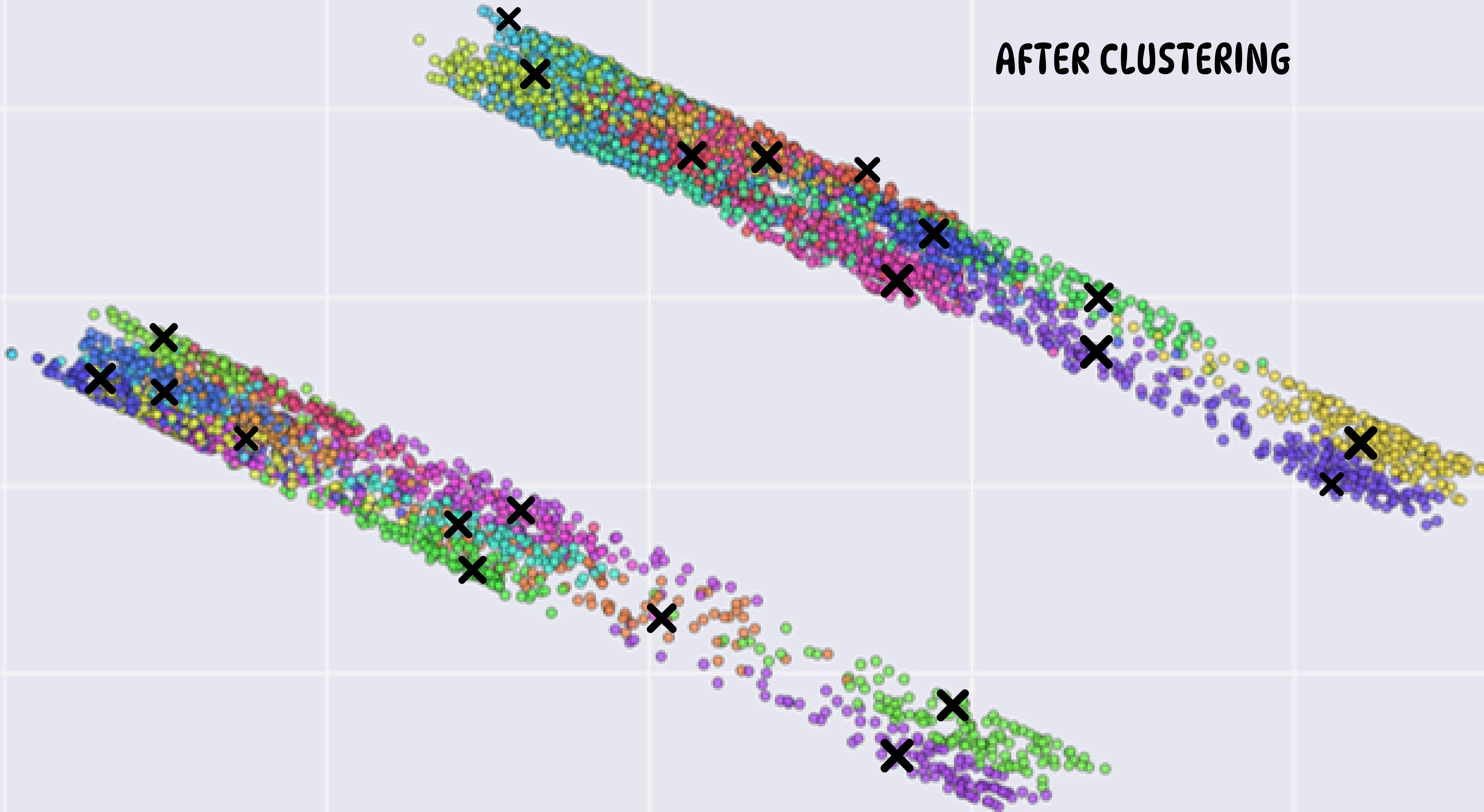
Very clear indication



**BEFORE CLUSTERING**



AFTER CLUSTERING



# How We Grouped Songs into Playlists



What Features Did We Use?

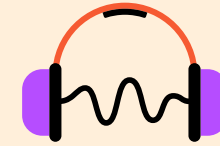
We focused on musical qualities that shape how a song feels:



Danceability



Energy



Acousticness




Instrumentalness



Valence

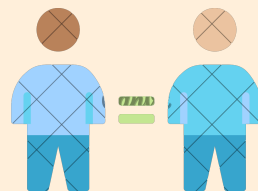


Tempo

 What We Left Out (and Why)

Some features didn't help much:

- Loudness



energy

- Time Signature –  song's vibe

- Type / HTML / Duration – Just metadata or not musically useful

danceability	1.00	0.69	0.15	0.89
energy	0.69	1.00	-0.39	0.86
	danceability	energy	key	loudness

## Cluster 0– Chill & Acoustic

- **Common traits include:** High acousticness, Lower tempo and energy, Softer, more relaxed tones
- **Ideal for:** relaxing, studying, or winding down

song title	artist
Parabens	Marcos Valle
Life On Mars - 1999 Remaster	David Bowie
Game Of Pricks	Guided By Voices
Inbetween Days	The Cure
Red Eyes	The War On Drugs



## Cluster 14 – Upbeat & Energetic

- **Songs in this cluster typically feature:** High tempo and energy, Low acousticness, Danceable rhythms
- **Ideal for:** workouts, parties, or energetic moods

song title	artist
Oats In The Water	Ben Howard
Don't Look Back into the Sun	The Libertines
The Nun's Litany	The Magnetic Fields
On A Mountain	Danny L Harle
Sorry	Justin Bieber





# Next Steps:

- **Add more context: genre tags, lyrics, user data.**

Song Title	Artist	Genre
Parabens	Marcos Valle	Bossa Nova
Life On Mars - 1999 Remaster	David Bowie	Art Rock
Game Of Pricks	Guided By Voices	Lo-fi Indie Rock

- **smarter clustering: Hierarchical or DBSCAN to handle overlaps and niche genres.**
- **Allow for hybrid playlists - mixing machine curation with expert fine-tuning.**
- **train on user preferences and feedback to create personalized playlists.**



THANK  
YOU