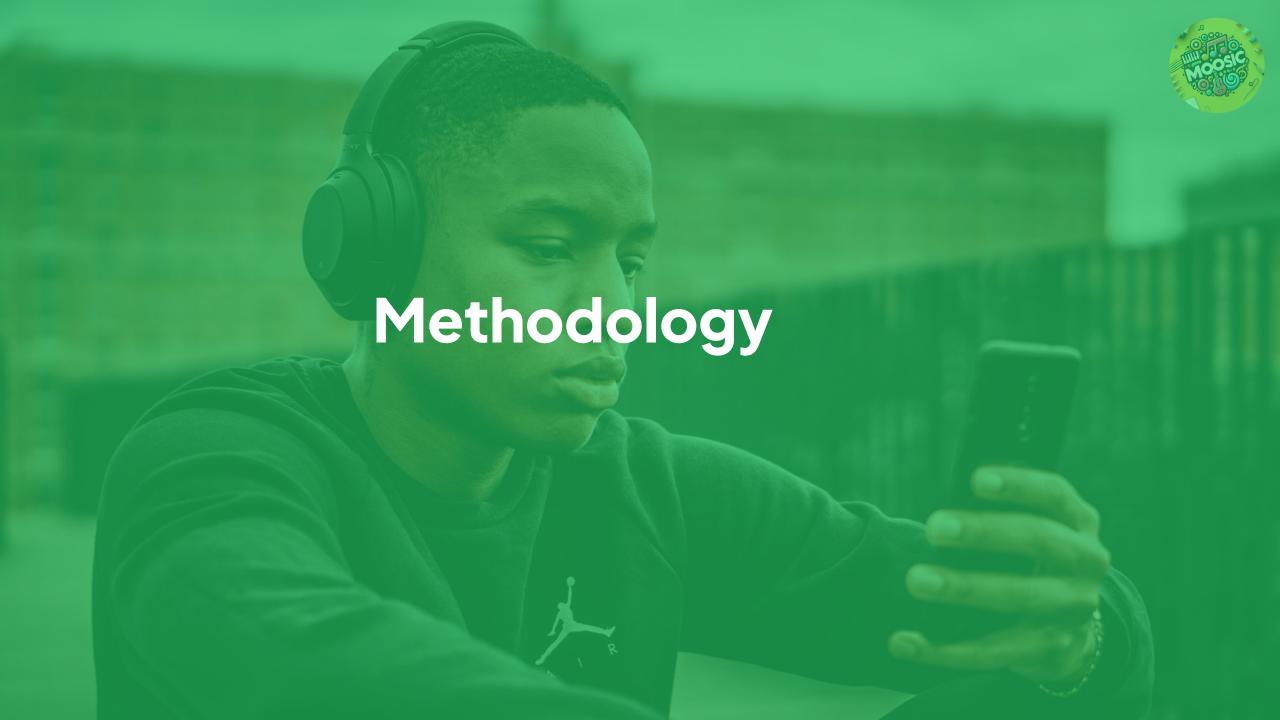




Date: March 2025

Group members: Bruna, Daniela, Inan, Sibulele

Presenters: Bruna, Inan and Sibulele



Explore and clean the data



Step 1



Explore and clean the data

Normalize: minmax normalization

Step 1 Step 2







Explore and clean the data

Normalize: minmax normalization

Explore the data using k mean values

k = number of playlists

Step 1

Step 2

Step 3



Explore and clean the data

Normalize: minmax normalization

Explore the data using k means

K = number of playlists

Step 1

Step 2

Step 3

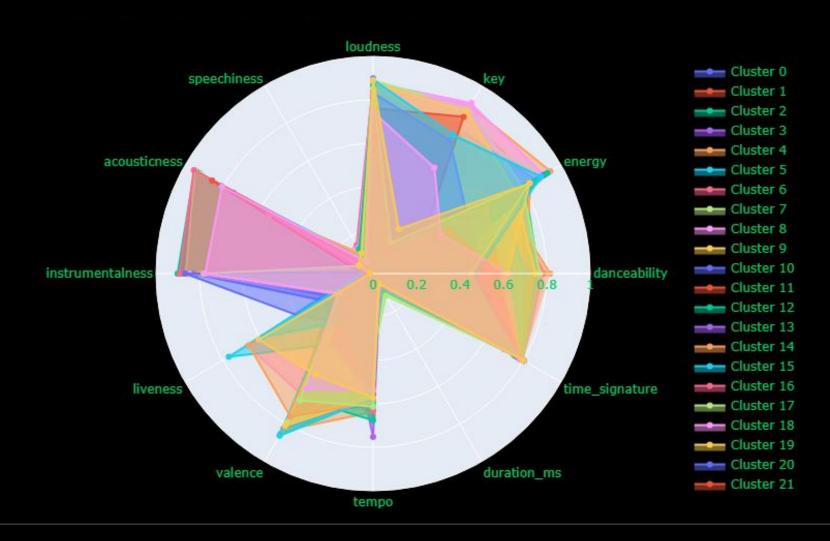
Create more plots with those k values

Step 4



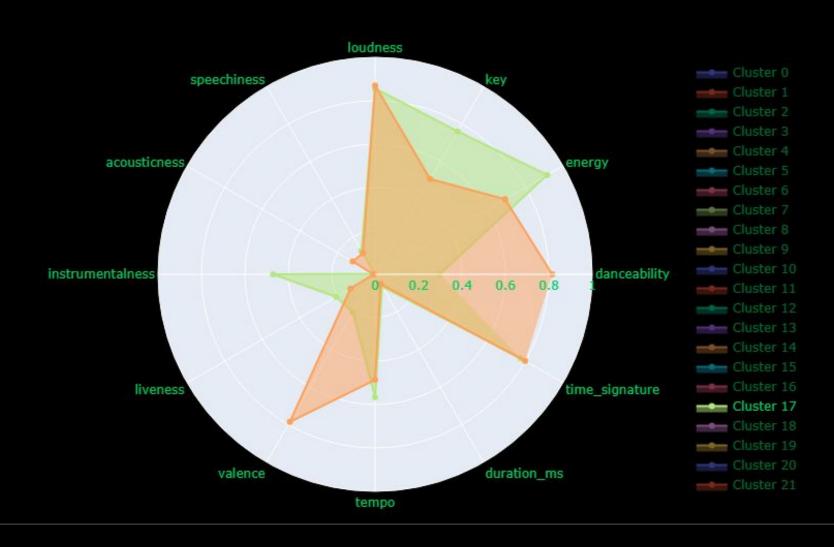
Radar chart

Mean preferences by chart

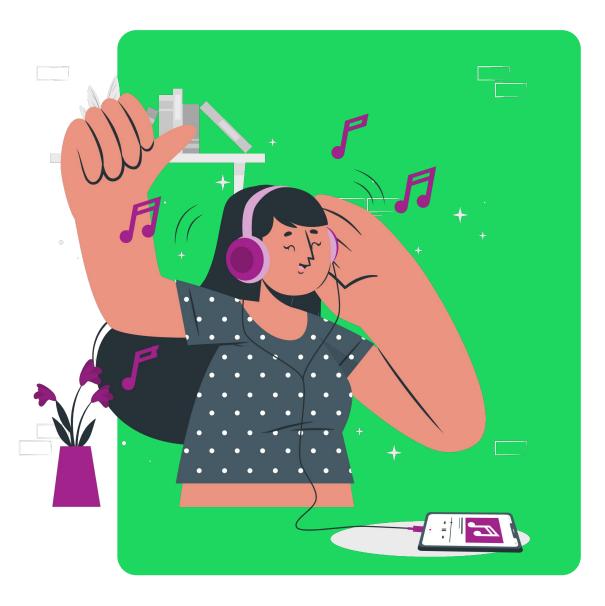


Radar chart

Mean preferences by chart-comparing two playlists







Distinct playlists:

- Hype Mode:On
- Road Trip to Berlin





Playlist

Hype Mode: ON

 $Playlist\ generated\ using\ unsupervised\ learning\ for\ educational\ purposes\ "Turn\ up\ the\ volume\ and\ energy\ take\ over!...$

Sibulele Ngomane • 11 songs, 54 min 47 sec

U				List <u>≔</u>
#	Title	Album	Date added	©
1	Archie, Marry Me Alvvays	Alvvays	35 minutes ago	3:16
2	Tornar a estar bé Súper Gegant	Camina i oblida	34 minutes ago	2:07
3	Heroes - 2017 Remaster David Bowie	"Heroes" (2017 Remaster)	34 minutes ago	6:11
4	Raining Blood Slayer	Reign In Blood (Expanded)	34 minutes ago	4:15
5	L'enfant sauvage Gojira	L'Enfant Sauvage (Special Edition)	25 minutes ago	4:17
	Helicopter - Video Edit Martin Garrix, Firebeatz	Helicopter (Video Edit)	33 minutes ago	3:0-

Turn up the volume and let energy take over! Hype Mode:
ON is your ultimate adrenaline-fueled playlist. These 104 tracks are designed to push you to the limit—whether you're hitting the gym or a night out!
Crank it up!





Roadtrip to Berlin

DA007 & DS037 Edition



Roadtrip to Berlin

nch • 1 salvamento • 155 músicas, cerca de 9h







Dancing Machine - Single Version



Café Bossa Nova - Beaches And Bars, Samba And S...

há 18 horas

há 18 horas

há 15 horas

há 18 horas

há 18 horas

The Rokstarr Hits Collection

Colour Collection (International Version)

Dance From The 80s



Buckle up and hit the road with the ultimate Roadtrip to Berlin DA007 & DS037 playlist—crafted for the legends of WBS School of Coding! Whether you're cruising down the autobahn, stuck in Berlin traffic, or waiting for yet another delayed Deutsche Bahn train, these tracks will fuel your journey with energy, nostalgia, and pure greatness!









My Library +















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PROS



Quick, simple and scalable way to create playlists



It is accessible, you don't need to be a musical expert to use the model to create a playlist



It manages to create distinct playlists that do not completely overlap



Home



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CONS



Does not account for qualitative features of types
 of songs such as "genre" which some customers
 might also associate with mood



 The number of songs per playlist varies which could lead to product marketing and pricing issues for customers



 It can't completely replace manual work, you still have to check to make sure the playlist makes sense



It's not clear whether these features alone are directly linked to "mood" because "mood is subjective"



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KEY SUCCESS CRITERIA FOR EVALUATING K-MEANS MODELS



Interpretability

 Yes, the playlists are distinct! But some playlists have songs to do not fit well together



Business Relevance

 Depends on how bespoke the playlists should be but the prototypes are not ready shipped to market without human editing



Discovery of new patterns

Yes, some otherwise different genres can be clustered together based on features alone

Recommendations

Balance Pros and Cons:

Moosic could use
 K-means clustering as
 the first step to
 automatically generate
 distinct playlists based
 on audio features like
 tempo, energy,
 acoustics



- To enhance quality,
engagement, and market
relevance, human
recognition should involve
music and marketing experts
to refine and curate the final
selections







