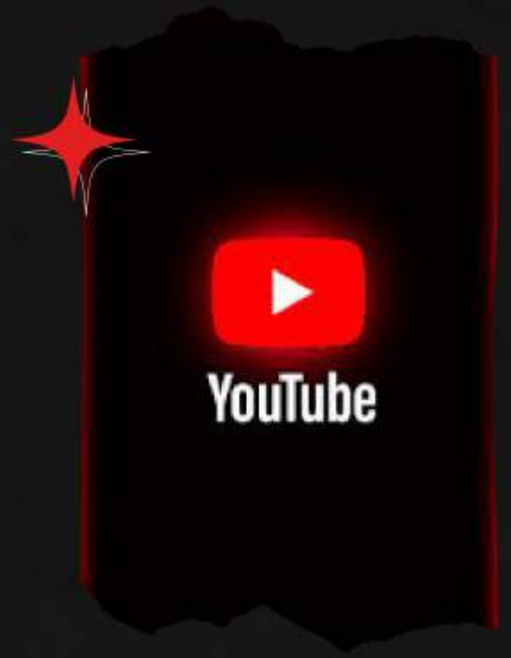
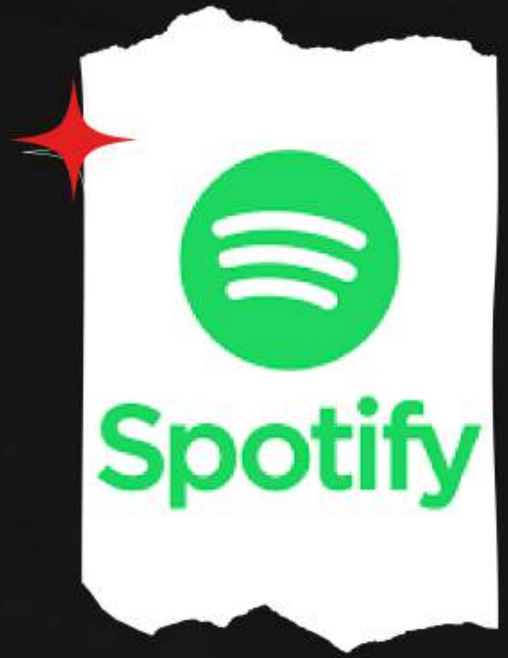
Moosic
I BREATHE MUSIC

LISTEN OUR PLAYLIST ON





TASK & CONCERNS

- **Task :**
  - Automate the process of playlist creation.

- **Concerns :**
  - Can audio features accurately capture the "mood" of a song?
  - Evaluate the effectiveness of K-Means for playlist generation or explore alternative algorithm

OUR MUSICAL CONTENT

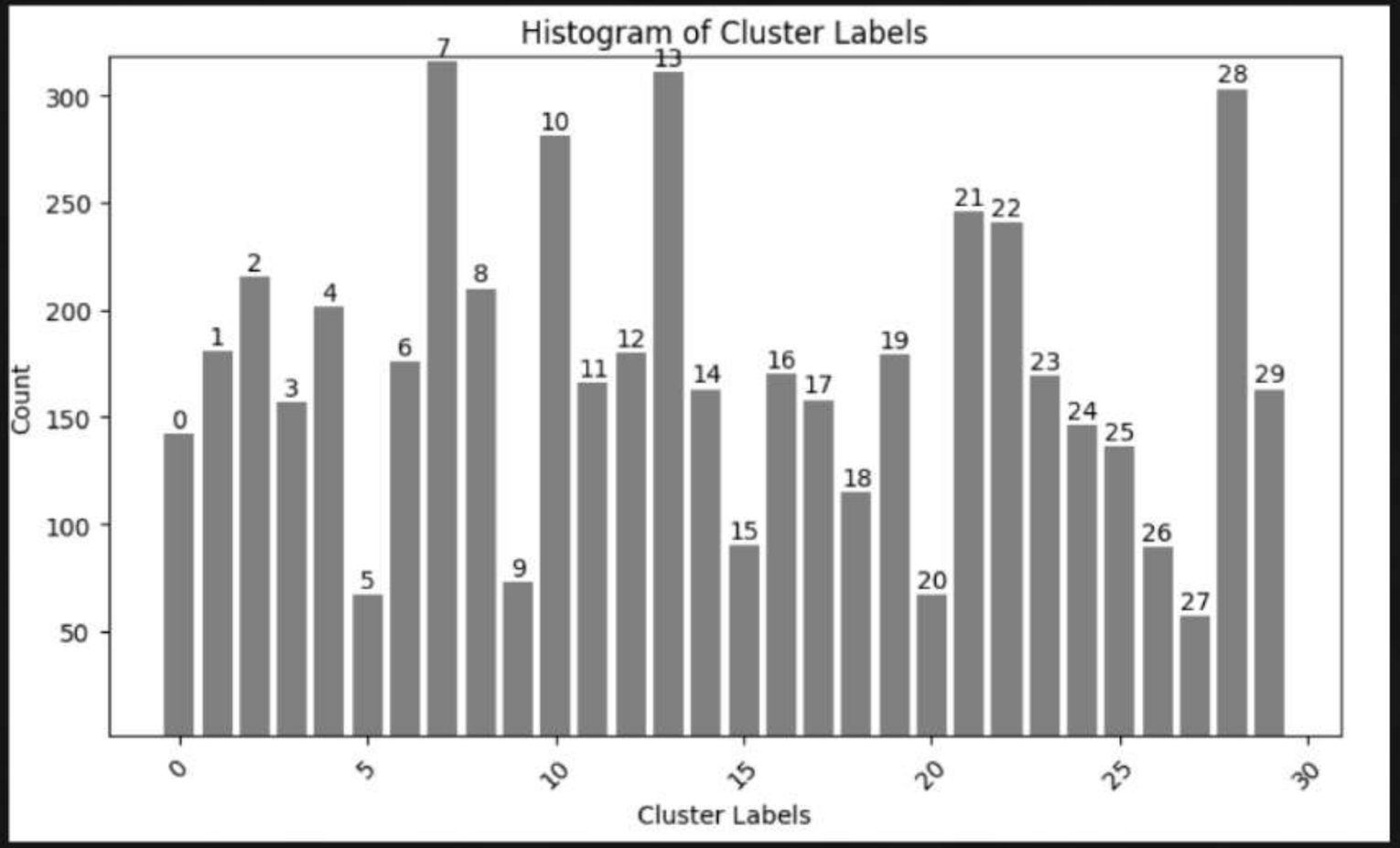
- Data Description
- Clustering Method(K-Means)
- Insights
- Limitation & Evaluation

DATA DESCRIPTION

Data: 5000 Songs

Danceability	Instrumentalness	Tempo	Mode	Key
Liveness	Acousticness	Energy	Time_signature	HTML
Loudness	Speechiness	Valence	Duration_ms	ID

CLUSTERING METHOD: K-MEANS



30 clusters

INSIGHTS

MANUAL CLUSTER LABELING - RANDOM PLAYLISTS

Playlist: Crazy love (cluster = 8)

Sexy Bitch (feat. Akon)
Playlist • Mennatallah Foenders

Fantasias
Playlist • Mennatallah Foenders

Respect
Playlist • Mennatallah Foenders

Where Is The Love?
Playlist • Mennatallah Foenders

Bow Wow (That's My Name) (feat. Snoop D...
Playlist • Emilyloumall

Leider geil (Leider geil)
Playlist • Mennatallah Foenders

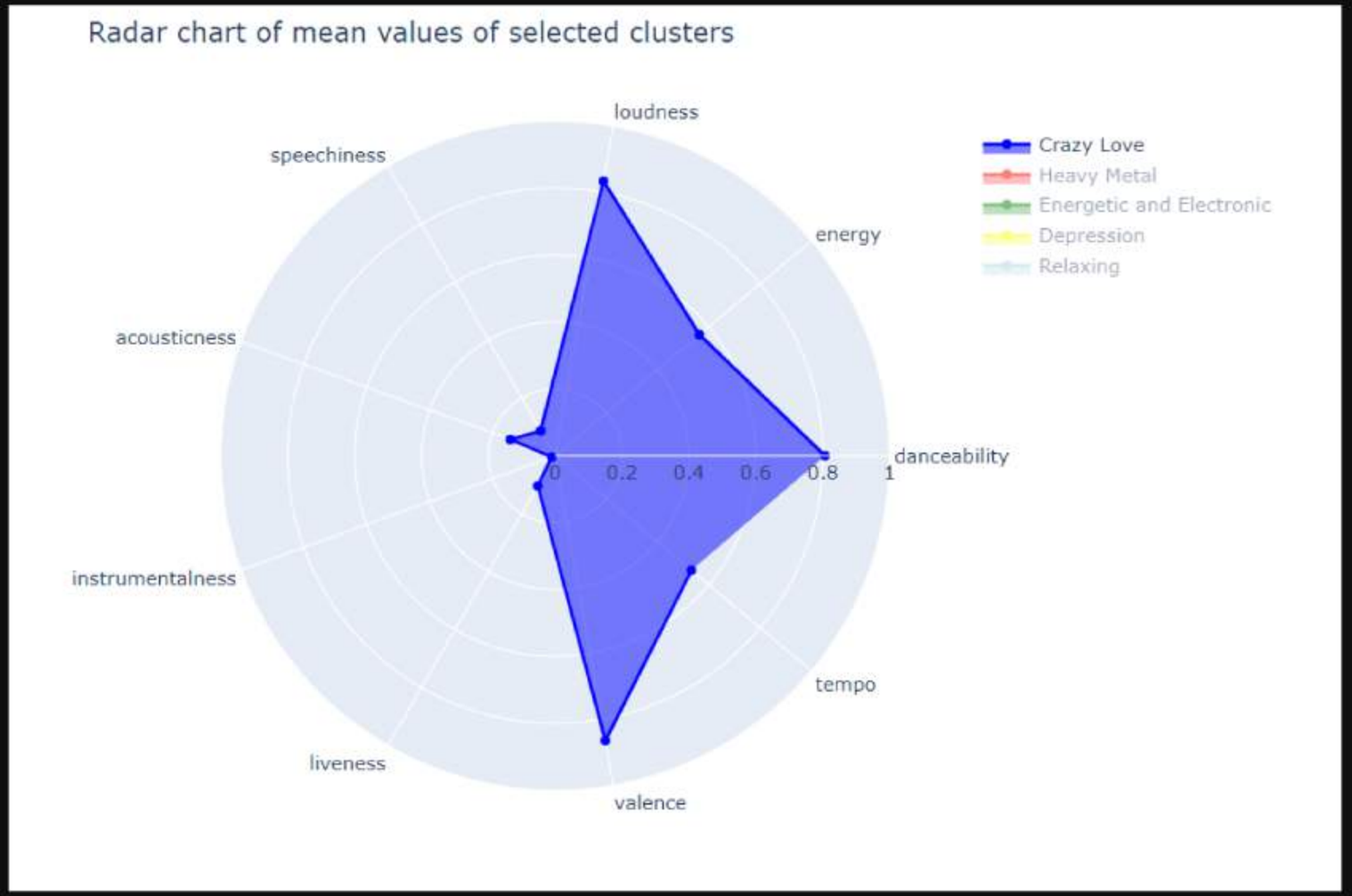
People Everyday - Metamorphosis Mi›
Playlist • Mennatallah Foenders

Like a Virgin
Playlist • Mennatallah Foenders

Let Me Blow Ya Mind
Playlist • Mennatallah Foenders

She Drives Me Crazy
Playlist • Mennatallah Foenders

Playlist: Crazy love (cluster = 8)



MANUAL CLUSTER LABELING - RANDOM PLAYLISTS

Playlist: Heavy Metal (cluster = 10)

The Ethno-Surge
Mennatallah Foenders

My Confused Mind
Shockman

Cut Throat Urges
Mennatallah Foenders

Blood Brothers - 2015 Remas...
Mennatallah Foenders

Eclipse into Eternity
Mennatallah Foenders

Conceal Interior Torments
Mennatallah Foenders

Conceal Interior Torments
Mennatallah Foenders

The Black Vomit
Mennatallah Foenders

Where Sinners Burn
Mennatallah Foenders

Dark Recollections
Mennatallah Foenders

Troops of Doom
Mennatallah Foenders

Playlist: Heavy Metal (cluster = 10)

MANUAL CLUSTER LABELING - RANDOM PLAYLISTS

Playlist: Energetic & Electronic (cluster = 27)

The Rite of Sunshine
Convulse

Rotting Spiritual Embodiment
Incantation

Four Walls
Agathocles

Crown of Horns
E Cryptopsy

Devoured Death
Incantation

Slit Your Guts
Cryptopsy

Fear Of Napalm
Terrorizer

Limb from Limb
Exhumed

Creative Killings
Sinister

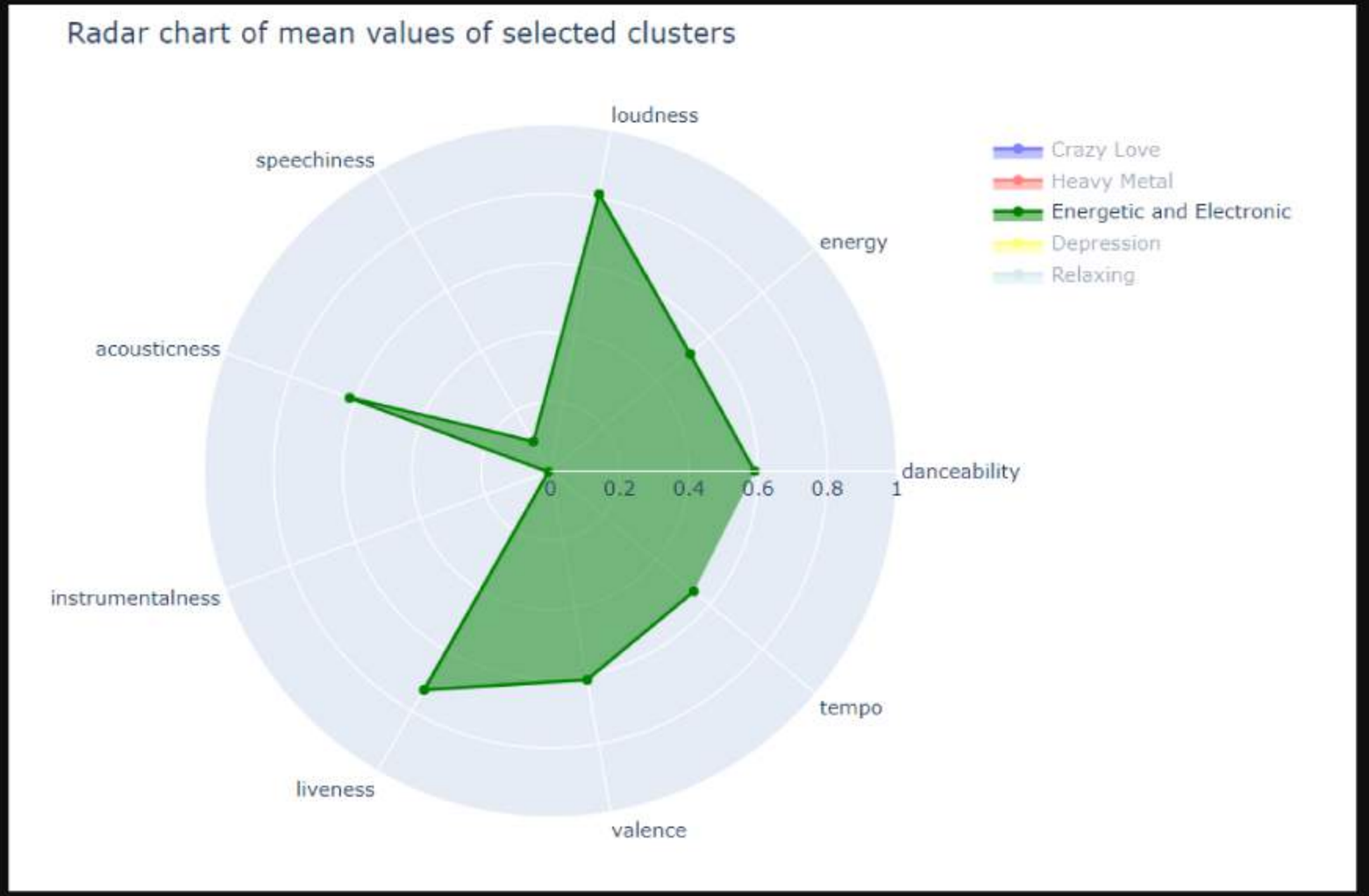
Out of the Womb
E Regurgitation

And Jesus Wept
Thanatos

Vulgar Necrolatry - From the Privil...
Amorphis

Inherited Bowel Levitation Reduce...
Demilich

Playlist: Energetic & Electronic (cluster = 27)



MANUAL CLUSTER LABELING - RANDOM PLAYLISTS

Playlist: Depression (cluster = 28)

Dead from the Waist Down
Playlist • Mennatallah Foenders

Closure
Playlist • Mennatallah Foenders

WE ARE DYING (ft. Abroad in Japan)| Tra...
Playlist • Mennatallah Foenders

Enjoy the Silence
Playlist • Mennatallah Foenders

Dreaming with the Dead
Playlist • Mennatallah Foenders

Reality - When You Die
Playlist • Mennatallah Foenders

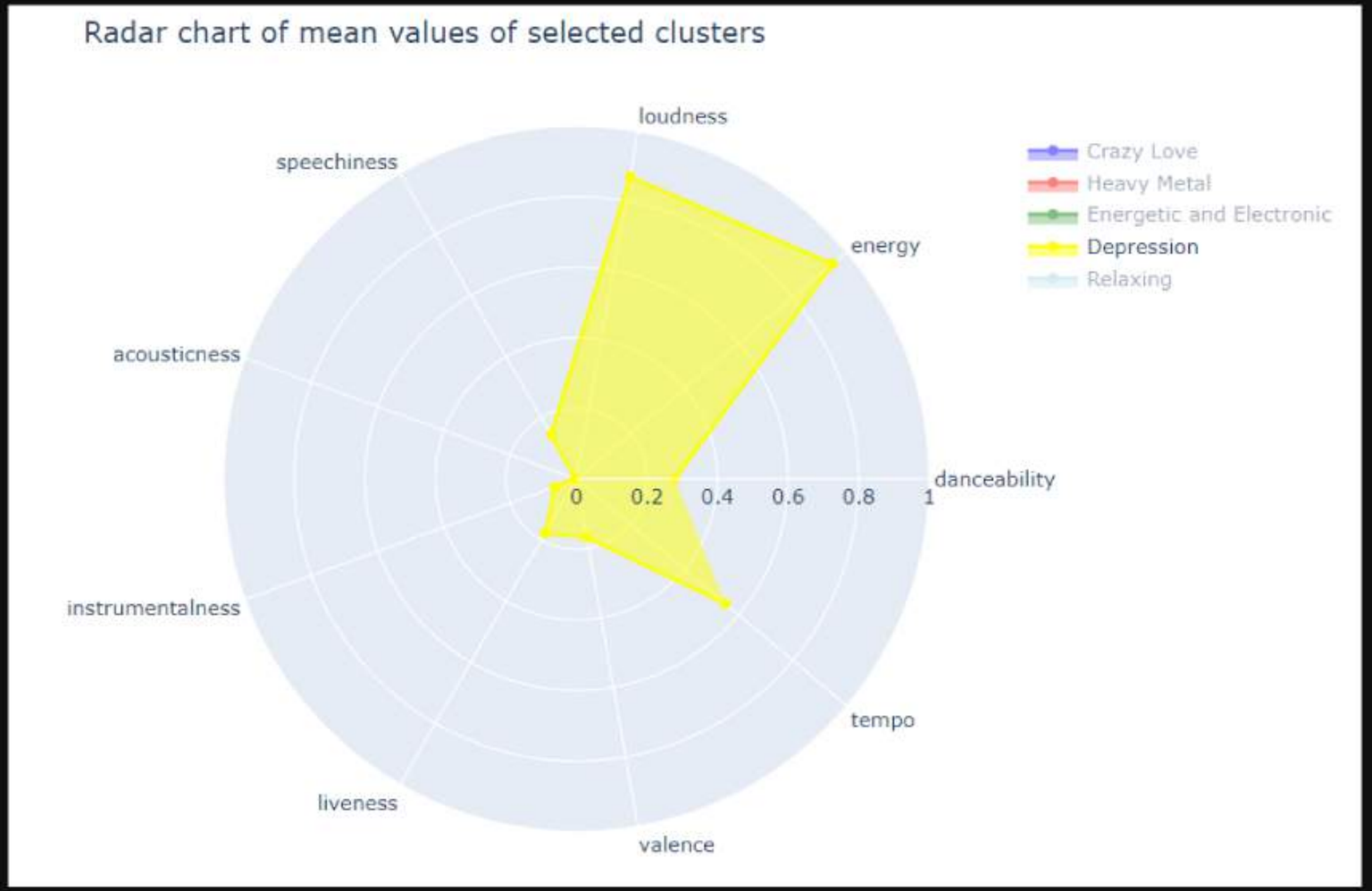
Beneath the Remains
Playlist • Mennatallah Foenders

Nervegasclouds
Playlist • Mennatallah Foenders

Rotting Ways
Playlist • jade

Punish My Heaven
Playlist • Martin Nilsson

Playlist: Depression (cluster = 28)



Limitation & Evaluation

- **Do not have an optimal playlist**
- **Choosing more random samples!!**
- **For example : 25 and 22 clusters were giving mostly classical songs.**

- **Optimize Model**
  - **Increasing the number of clusters**
  - **Clustering Strategy** (Features Selection)

THANK'S FOR LISTENING