

# MOOSIC

AUTOMATING  PLAYLIST CREATION AT  
MOOSIC

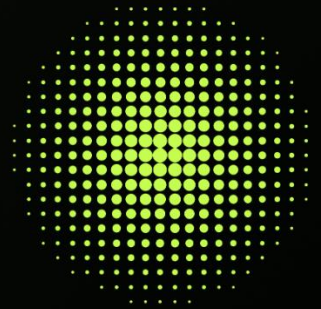
# INTRODUCTION

- Moosic is scaling up and needs a faster way to curate playlists.
- We used machine learning to create a playlist prototype.
- Today, we'll explain how the prototype works and how we can improve it.



# HOW WE CREATED OUR PROTOTYPE

Spotify data with 5,000+ songs and 13 audio features



instrumentalness

valence

# EFFECTIVENESS OF PLAYLISTS

The prototype groups songs by audio features.



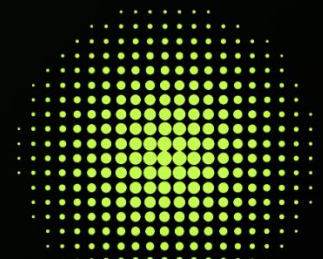
## Example Playlists:



- Classic (Opera's like Finlandia from Jean Sibelius)
- High-acousticness, none/low speechiness
  - slow romantic songs, with high volume of classic instruments



- Pop
- focus on danceability & energy
  - mix with German Schlager, Rap, other Pop Songs



# ARE SPOTIFY'S AUDIO FEATURES EFFECTIVE IN IDENTIFYING SIMILAR SONGS?

## Strengths:

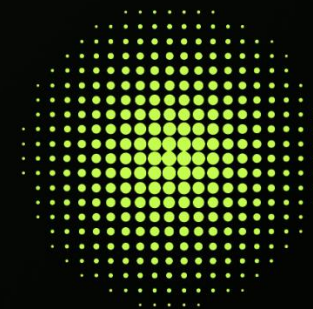
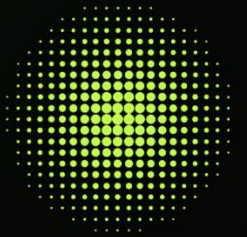
- Audio features like tempo, energy, and danceability help group similar songs.

## Weaknesses:

- Emotional and subjective qualities are harder to capture.

## Ideas for Enhancement

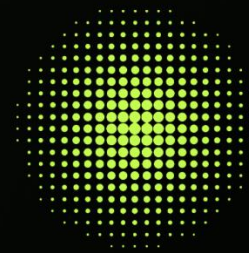
- Add data like lyrics, genre tags, or user preferences to better understand song emotions.





# NEXT STEPS

- Explore Techniques: Test different clustering methods for better results.
- Incorporate Additional Data: Use lyrics, genre, and user interaction data to enhance playlists.

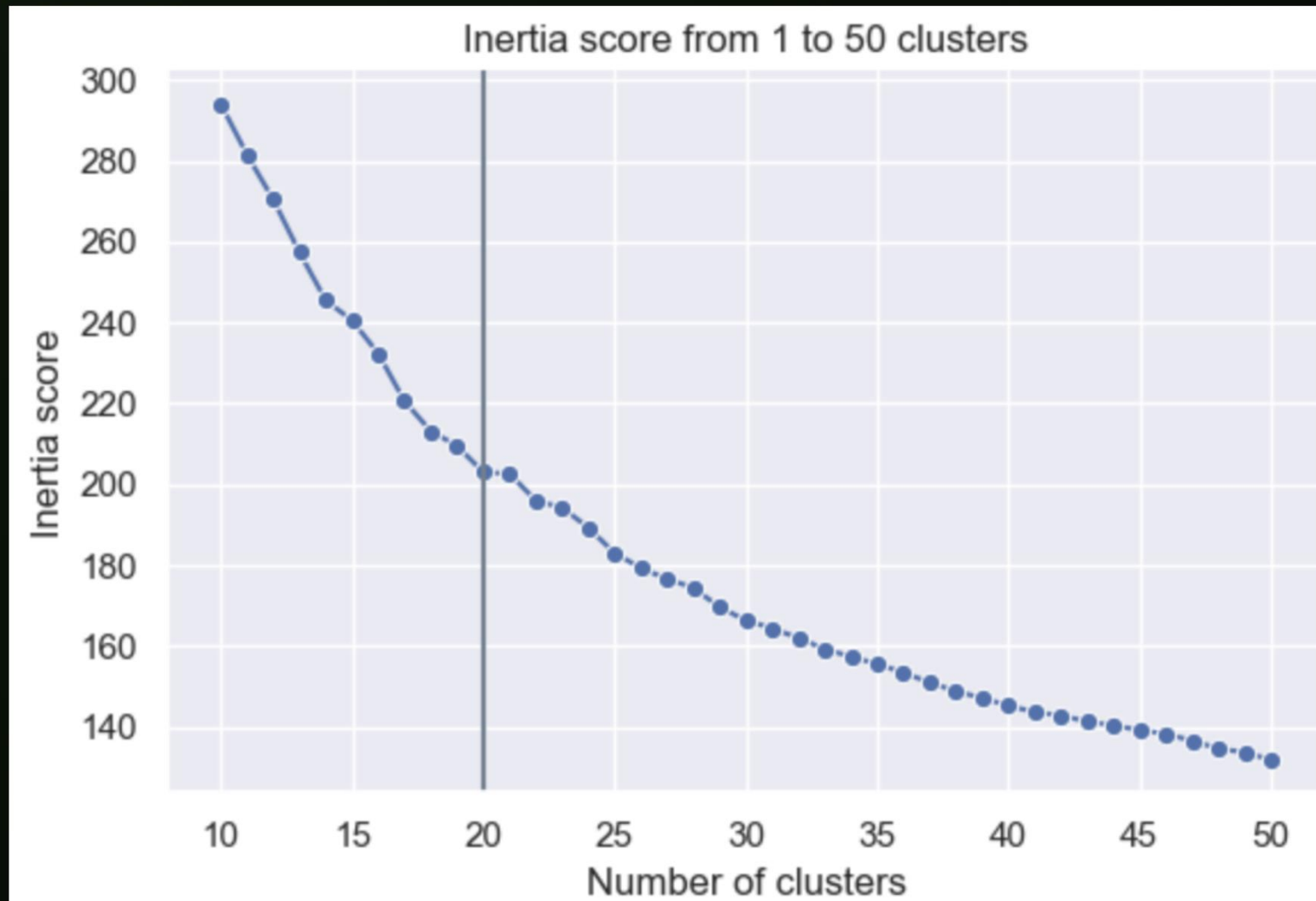


# THANK YOU

We're ready to answer any questions or discuss specific points about the prototype and our findings.

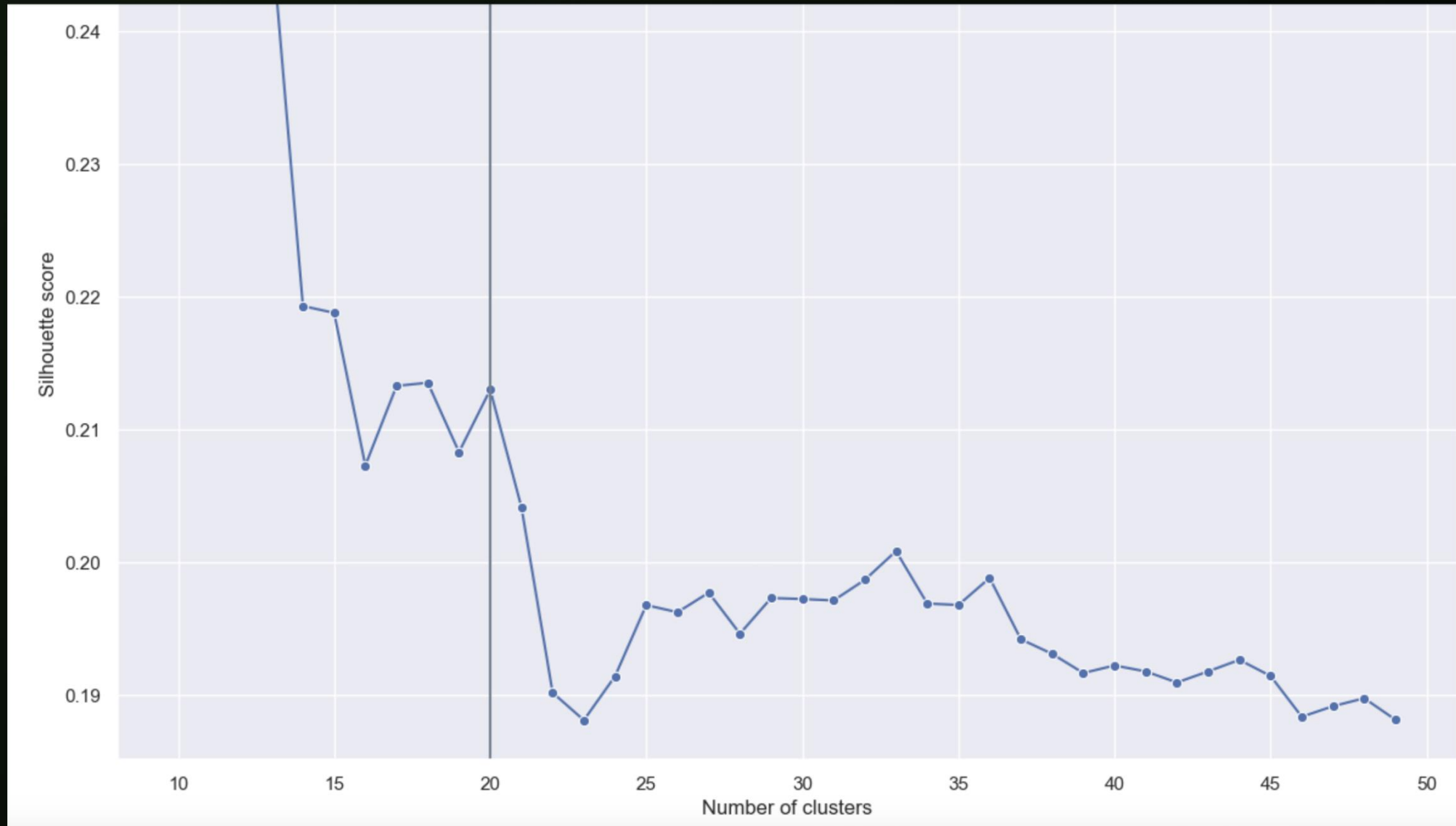


# APPENDIX





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Radar chart of mean song features by cluster

