

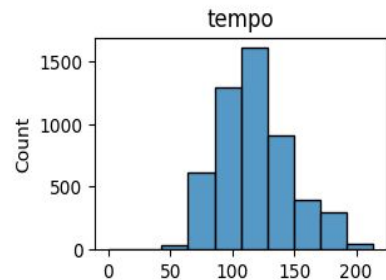
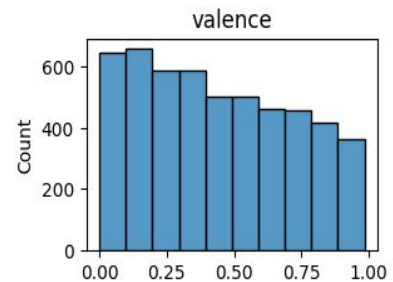
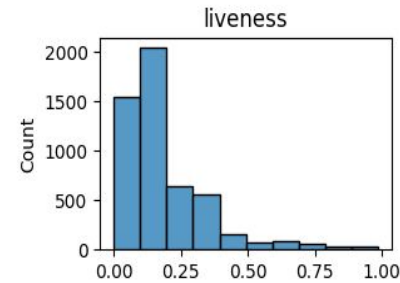
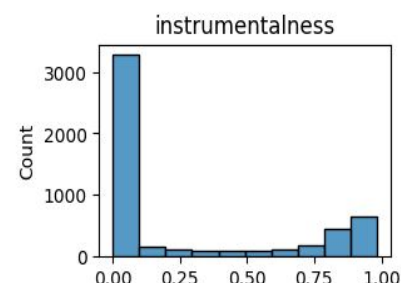
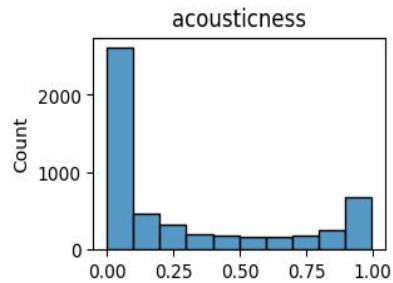
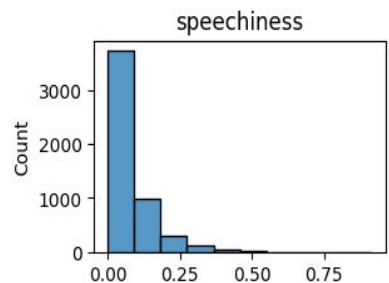
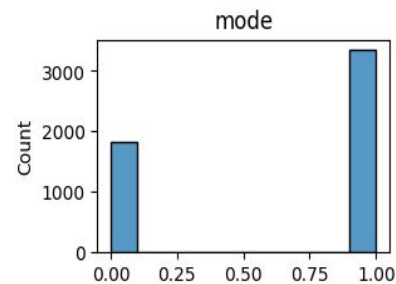
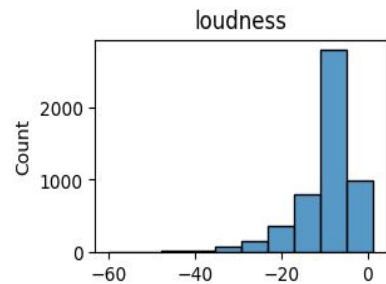
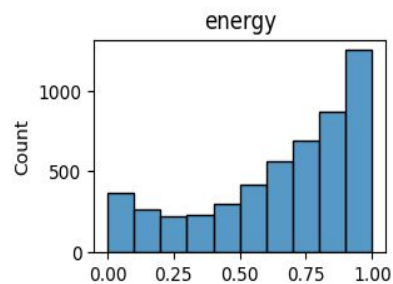
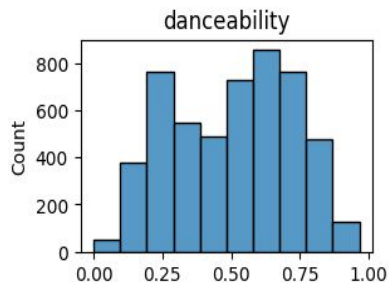


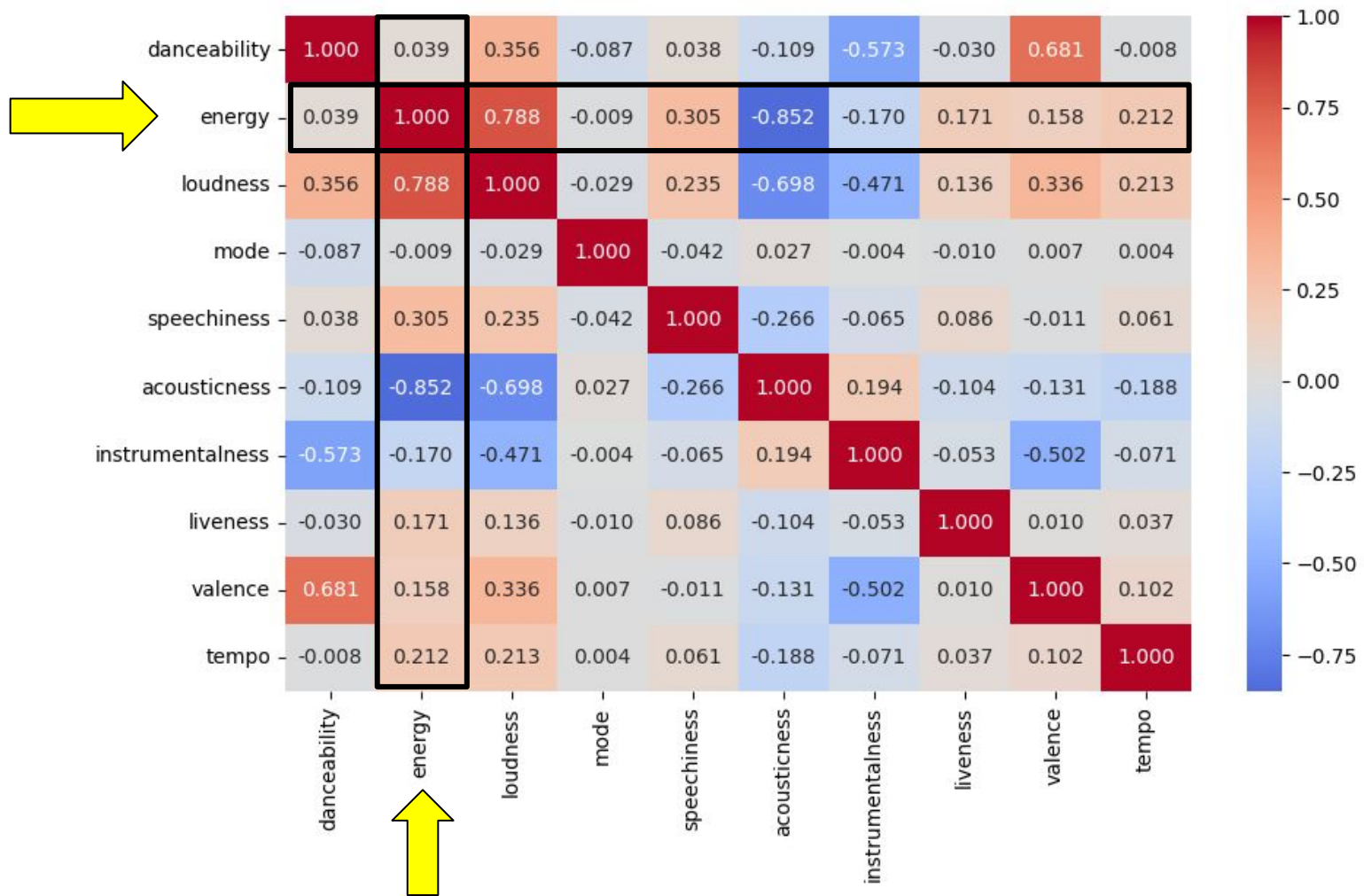
Clustering Songs into Spotify Playlists

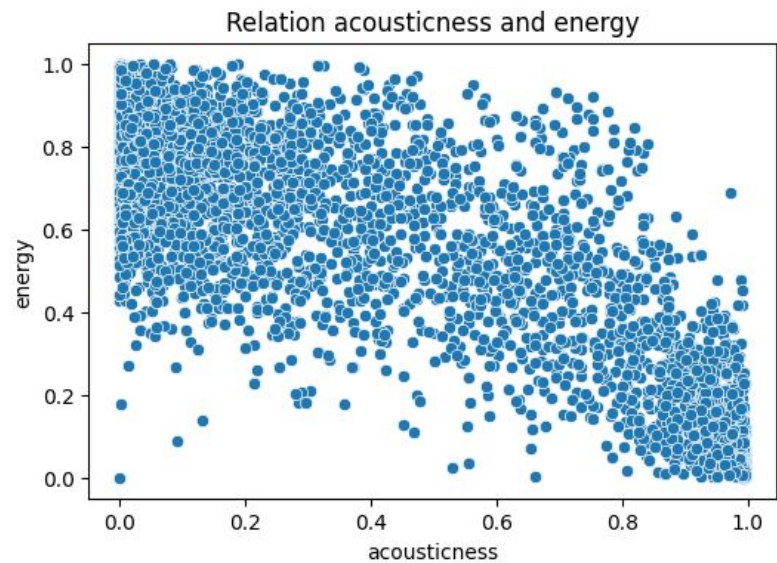
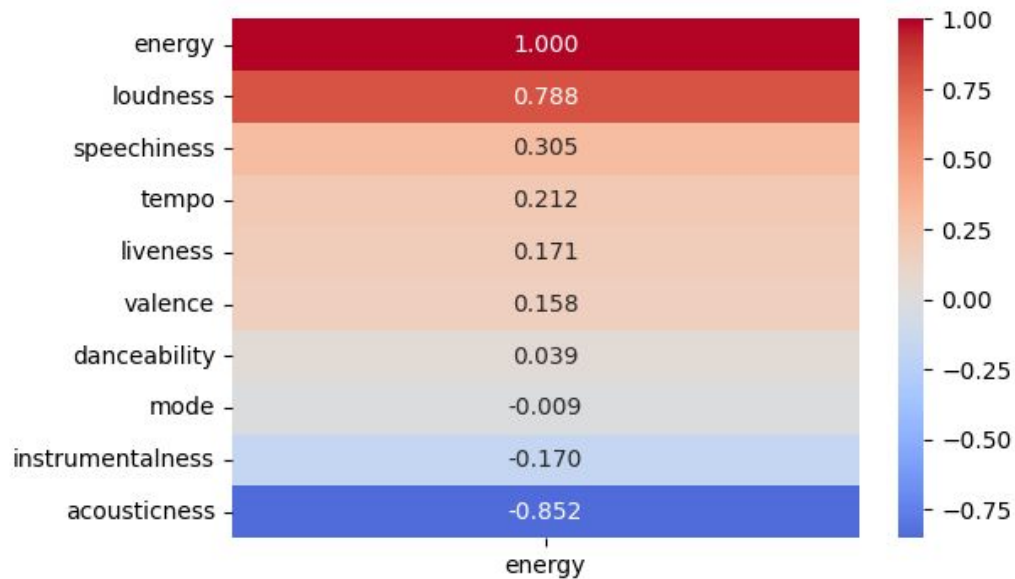
Sofía Tello, Ivan Curmi, Asif Siddiqi,
Cathrin Rahn



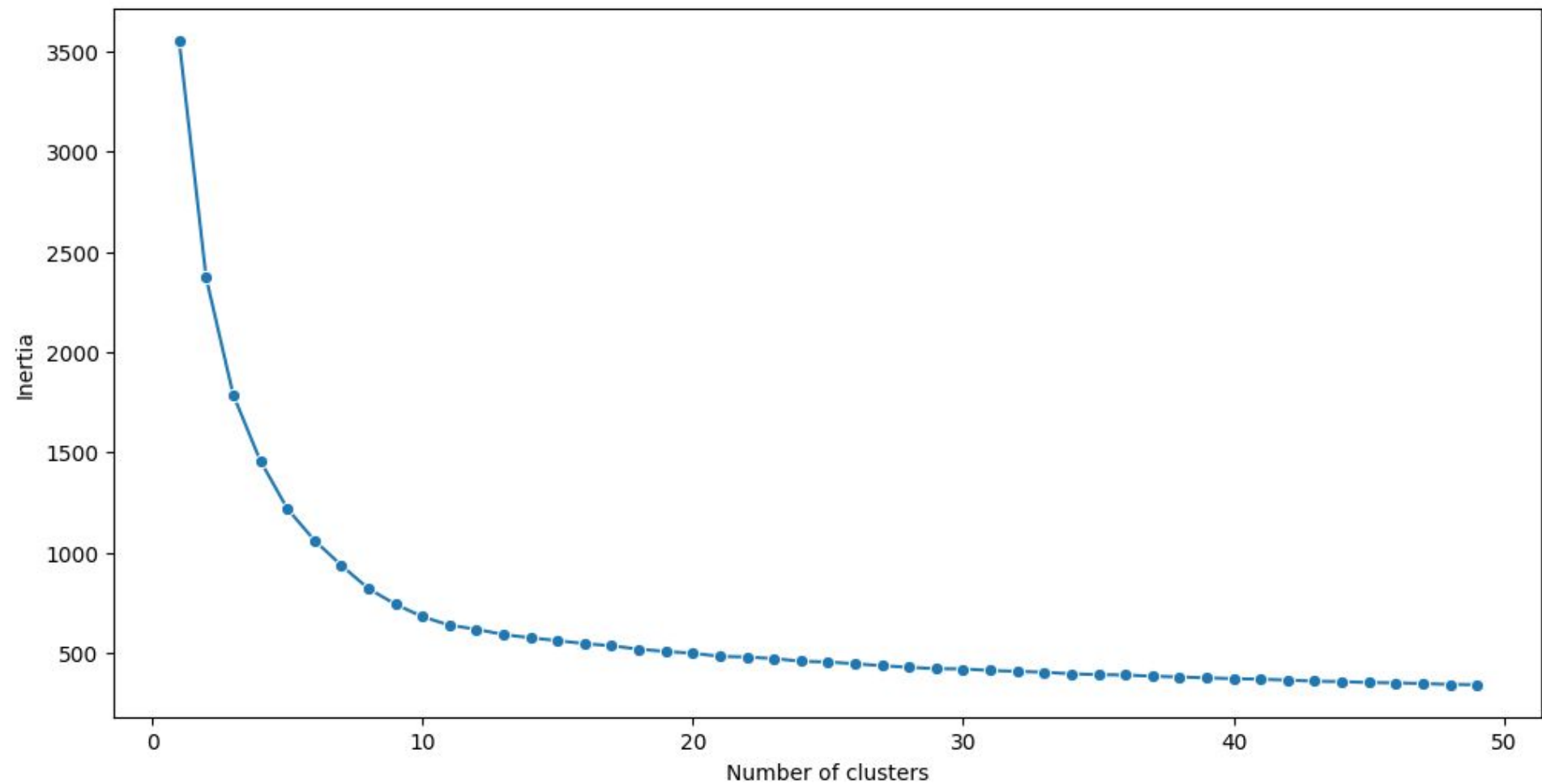
Feature Selection



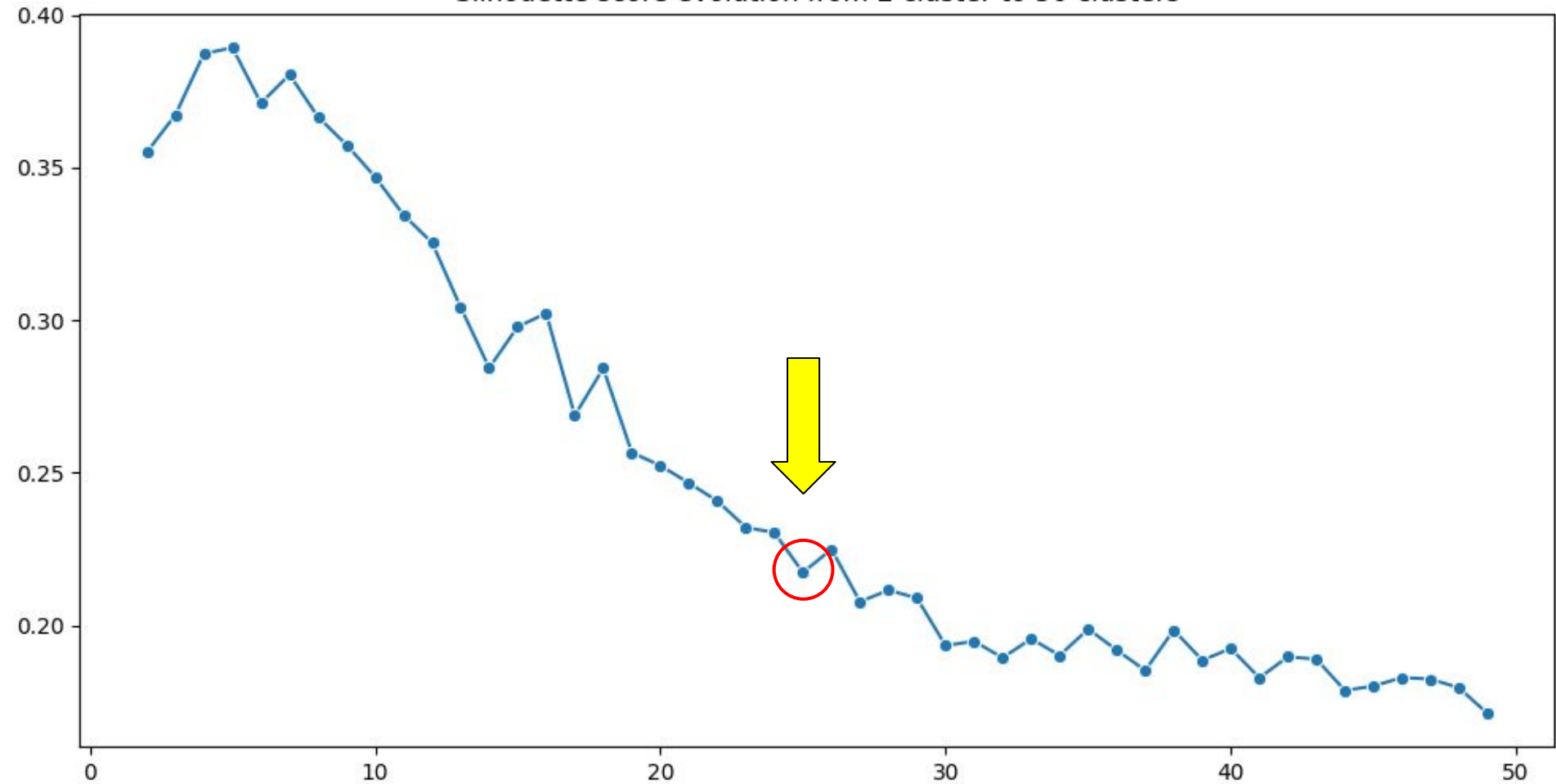




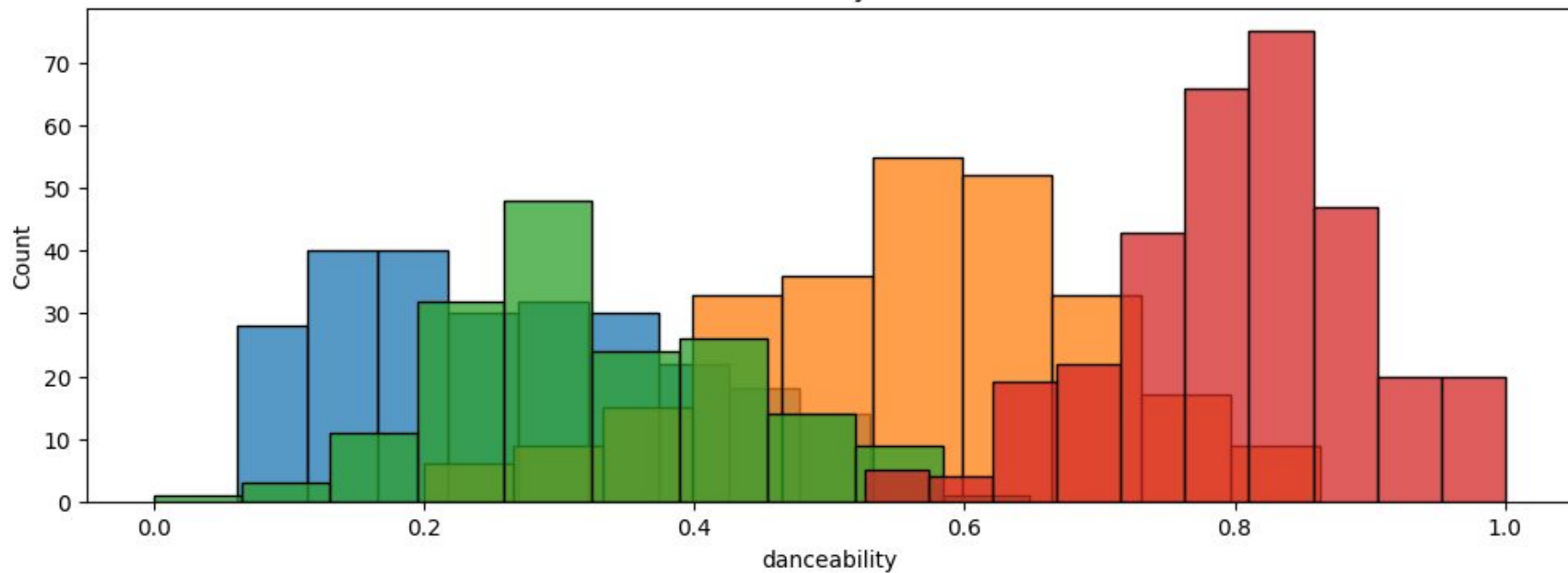
Inertia evolution from 1 cluster to 50 cluster



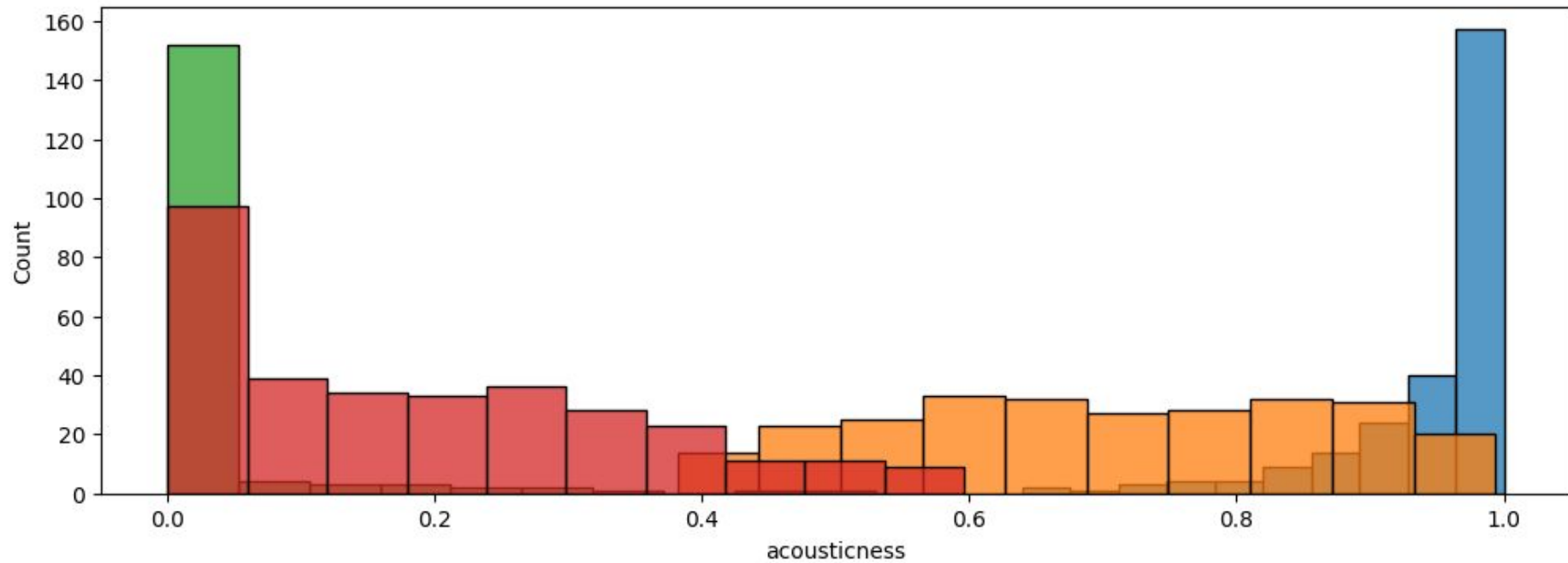
Silhouette score evolution from 2 cluster to 50 clusters



Distribution of danceability for different clusters



Distribution of acoustiness for different clusters



Exploring Genres

Cluster 0 Word Cloud



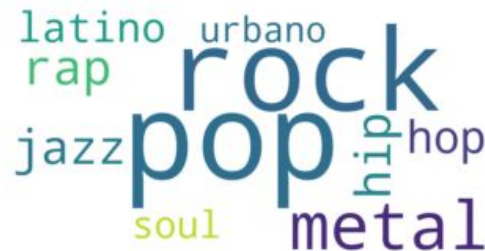
Cluster 1 Word Cloud



Cluster 2 Word Cloud



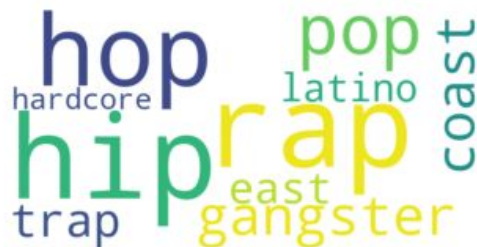
Cluster 3 Word Cloud



Cluster 4 Word Cloud



Cluster 5 Word Cloud



Conclusions

- Spotify audio features are able to identify similar songs, although there are some genres that are better classified than others
- K-Means is a good method to create playlists but it's not enough - you still need external info to refine the job, like what is a good size for a playlist or to look at which elements definitely don't belong to certain clusters



Thank you!

