Spotify Genre Classification

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github.com/faridvaliyev1/Spotify-Genre-Analysis
Dataset

data_each_genres.csv (64k)
- acousticness
- artists
- danceability
- loudness
- energy
- genres
- instrumentalness
- key
- liveness
- duration_ms
- mode
- popularity
- speechiness
- tempo
- valence

genres.csv (2664)
- genre
- acousticness
- danceability
- duration_ms
- energy
- instrumentalness
- liveness
- loudness
- speechiness
- tempo
- valence
- popularity
- key
- mode
Steps

Clustering genres into super-genres and predicting super-genre of tracks

1. Variable Selection
2. Genre Clustering
3. Genre Prediction
Methods

1. PCA
Methods

1. PCA
2. K-Means
Methods

1. PCA

2. K-means

3. Elbow Method
The statistics of genres
Results
We have learned

1. Data Collection
2. EDA
3. Data Preprocessing
4. Implementation Unsupervised Learning
5. Validating the models
6. Team work
Thanks for your attention!

Spotify tells me that I have listened to 941 different genres thinking there only exist 6