

# **Spotify:** **Music** **Streaming** **App**

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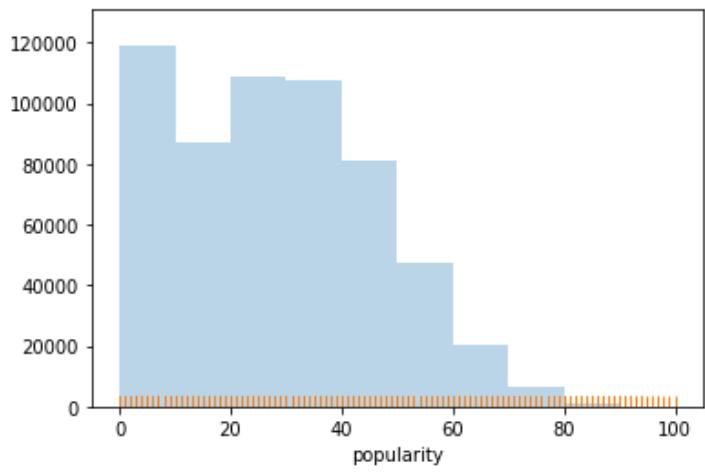
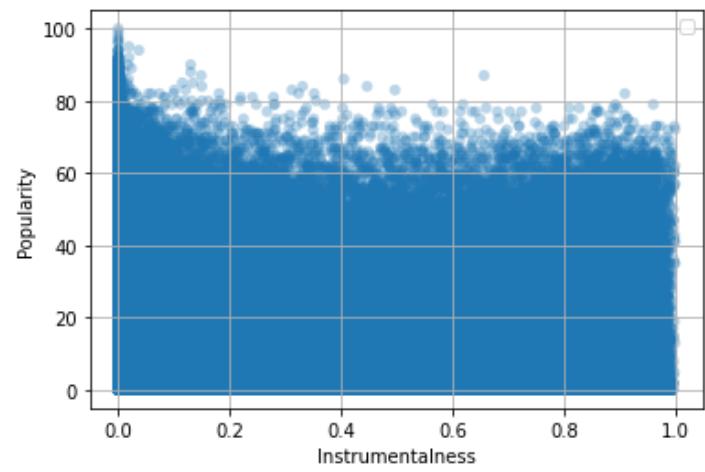
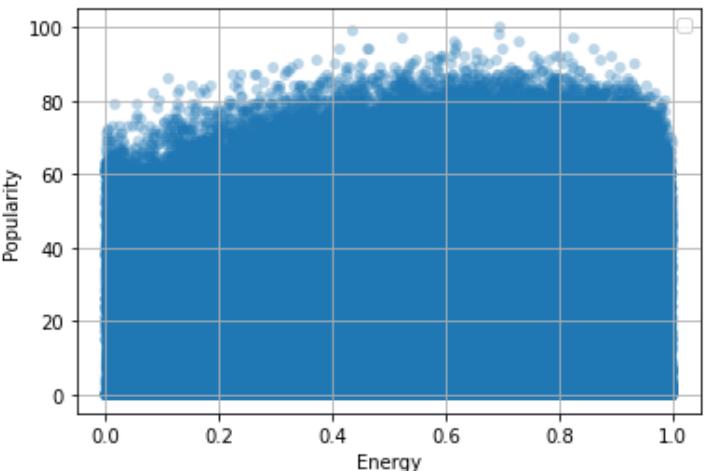
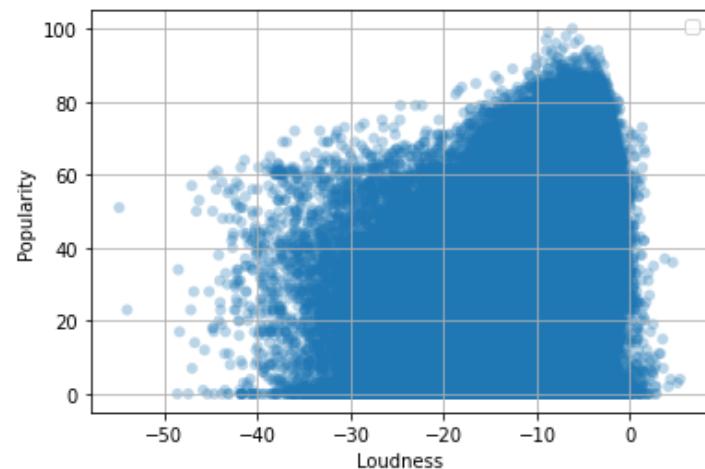
# Message from the Team

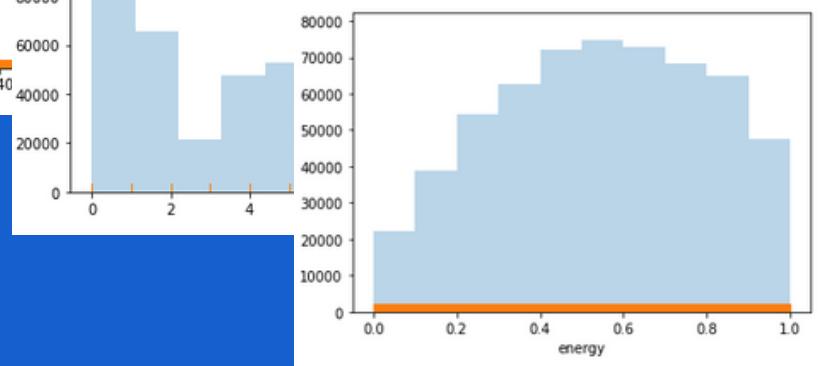
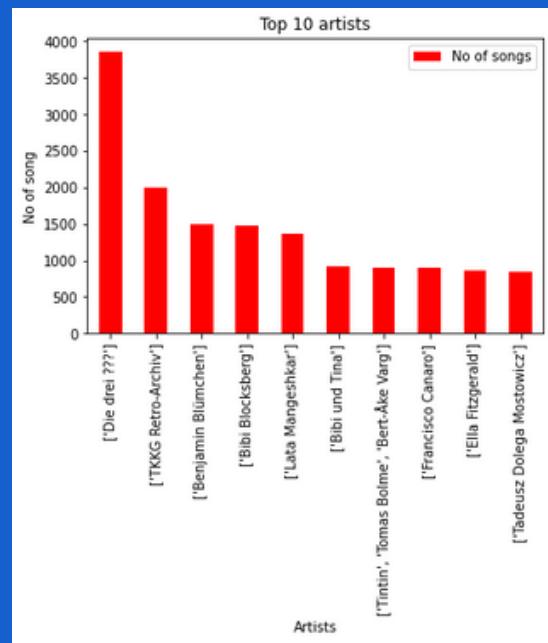
We are a group of curious people that wants to explore the backend of the user recommendation machine learning models with Spotify music data. We want to create a model that provides music recommendations customized to the music taste the user is looking for.

# About the new feature

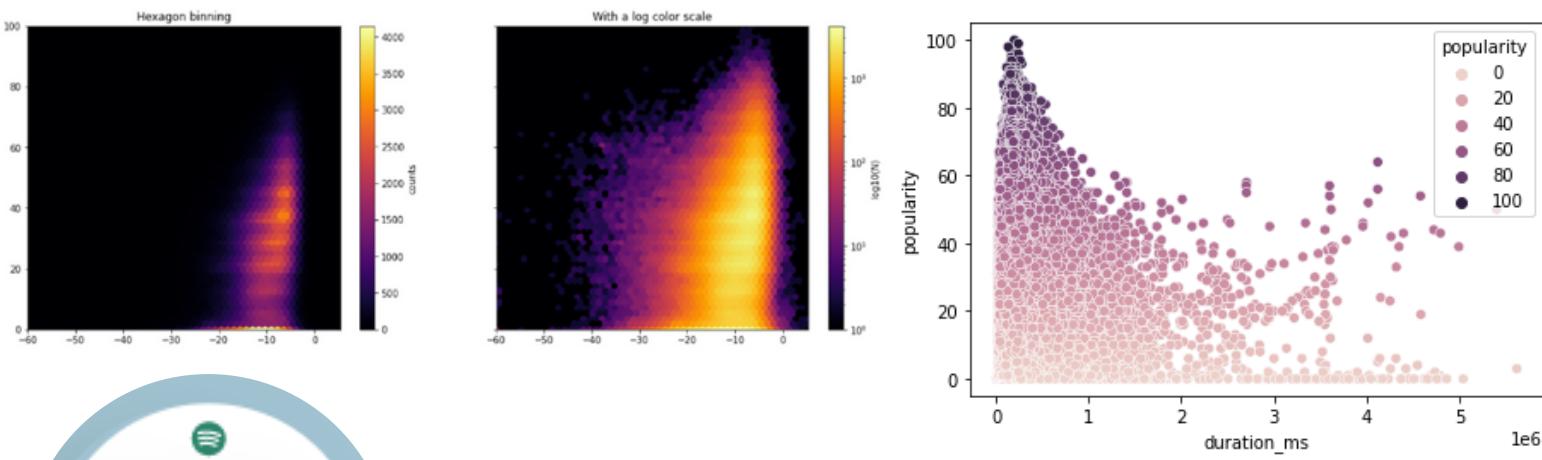
Our model will analyze a user's favourite song and provide song suggestions based on the similarity of musical features such as danceability, acousticness, energy, tempo, and so on.

Correlation																	
Unnamed:	0	-0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.1	-0.0	0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
popularity	-0.0	1.0	0.0	0.2	0.6	0.2	0.3	0.0	0.3	-0.0	-0.0	0.4	-0.2	-0.0	0.0	0.1	0.01
duration_ms	0.0	0.0	1.0	-0.0	0.1	-0.1	0.0	0.0	-0.0	-0.0	-0.1	0.1	0.0	-0.2	-0.0	0.0	0.0
explicit	0.0	0.2	-0.0	1.0	0.2	0.1	0.0	0.1	-0.1	0.1	-0.1	-0.1	0.0	-0.0	0.0	0.0	0.0
release_date	0.3	0.6	0.1	0.2	1.0	0.2	0.5	0.0	0.4	-0.1	-0.1	0.5	0.2	0.0	0.0	0.1	0.01
danceability	0.0	0.2	-0.1	0.2	0.2	1.0	0.2	0.0	0.2	-0.0	-0.2	-0.2	-0.1	0.5	-0.1	0.1	0.0
energy	0.1	0.3	0.0	0.1	0.5	0.2	1.0	0.0	0.8	-0.1	-0.1	-0.7	-0.2	0.1	0.4	0.2	0.02
key	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
loudness	0.1	0.3	0.0	0.1	0.4	0.2	0.8	0.0	1.0	-0.0	-0.2	-0.5	-0.3	0.0	0.3	0.2	0.01
mode	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.0	1.0	-0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
speechiness	0.1	-0.0	-0.1	0.1	-0.1	0.2	-0.1	0.0	-0.2	-0.0	1.0	0.1	-0.1	0.2	0.0	-0.1	-0.1
acousticness	-0.1	0.4	-0.1	-0.1	-0.5	-0.2	-0.7	-0.0	-0.5	0.1	0.1	1.0	0.2	-0.0	-0.2	-0.2	-0.2
instrumentalness	-0.1	-0.2	0.1	-0.1	-0.2	-0.2	-0.2	-0.0	-0.3	-0.0	-0.1	0.2	1.0	-0.0	-0.2	-0.1	-0.0
liveness	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	-0.0	0.0	0.0	0.2	-0.0	-0.0	1.0	-0.0	0.0	0.0
valence	0.0	0.0	-0.2	0.0	0.0	-0.0	-0.5	0.4	0.0	0.3	0.0	0.0	-0.2	-0.2	0.0	0.1	0.01
tempo	0.0	0.1	0.0	0.0	0.1	-0.1	0.2	0.0	0.2	0.0	-0.1	-0.2	-0.1	0.0	0.1	1.0	0.0
time_signature	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.0	0.1	-0.0	-0.1	-0.2	0.0	0.1	0.0	0.0	1.0





We believe by using this model this expands the usefulness of the Spotify recommendation platform to help users discover new music, increases user satisfaction with Spotify and ultimately increases the number of active users on Spotify.



# About Spotify



Spotify is a Swedish audio streaming and media services provider.

Swedish entrepreneur and technologist Daniel Ek founded his company in 2006.

As the world's largest music streaming service provider, with over 356 million monthly active users, including 158 million paying subscribers, as of March 2021.