

MUZ: music for weirdos

bataeva, gordeeva, pavlova, polozova, silyutina

contents

project's **idea**

data source

tasks & responsibilities

prototype **design**

current project's **stage**

what has **left**

projects' goal

Music Recommender System for



users

independent – unique – weird

tasks

Data Preprocessing

(Silyutina, Polozova, Pavlova, Gordeeva)

Albums and Tracks Clusterization

(Polozova, Pavlova)

Shiny Prototype

(Silyutina, Gordeeva)

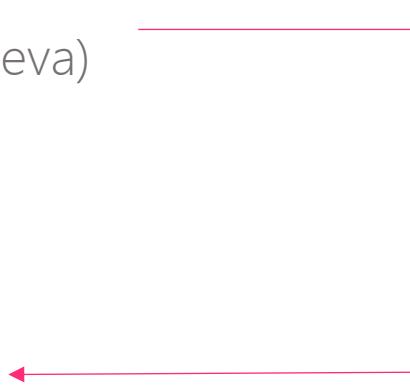
Adding cluster features and
Recommender System Building

(Bataeva)

Final App Deployment & Model Implementation

(Silyutina, Bataeva)

QA Testing & Bugs Fixing



data source & description

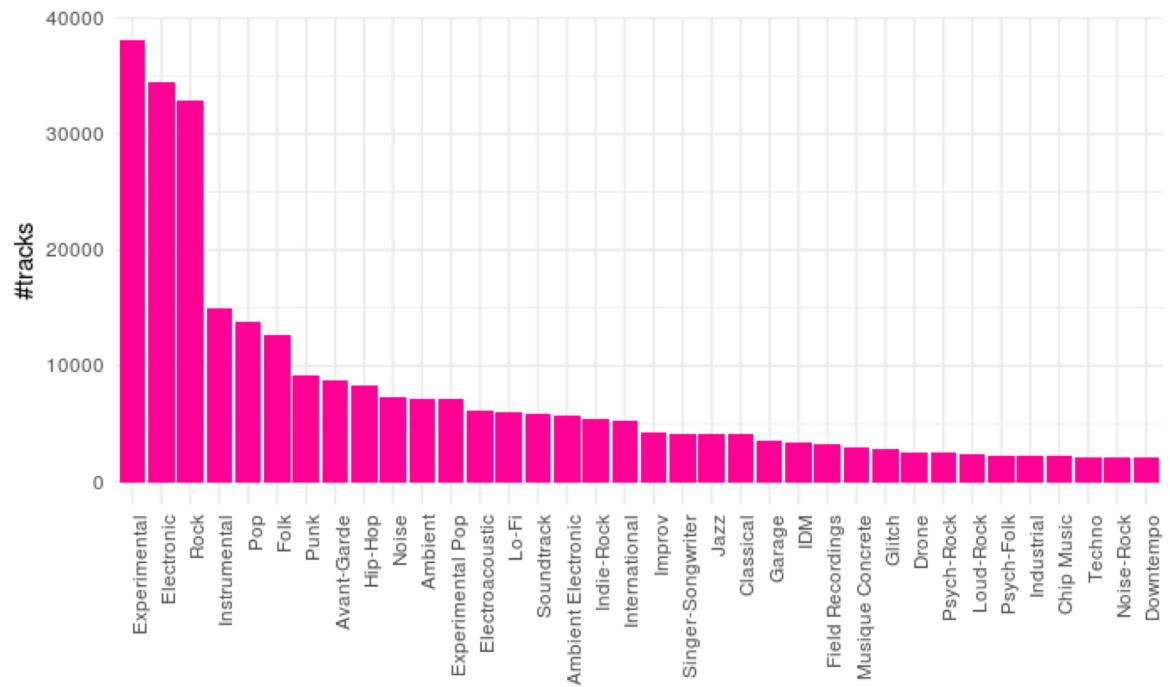
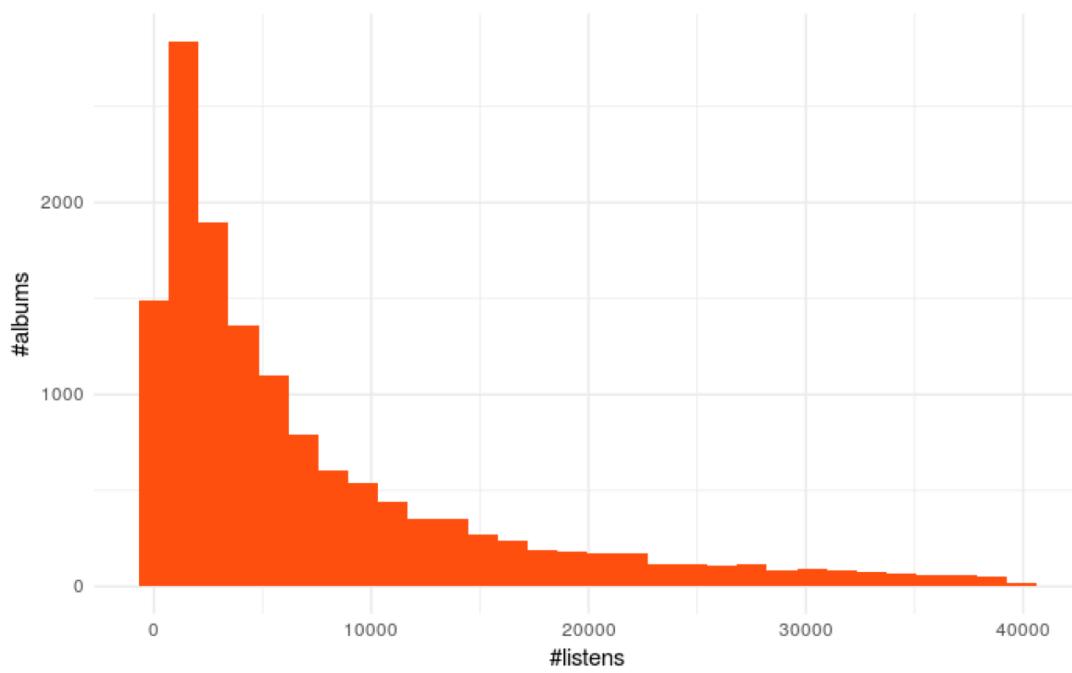
FMA: A DATASET FOR MUSIC ANALYSIS
106,574 tracks from 16,341 artists and 14,854 albums

Tracks Meta Data:

- Track title, album title, artist name
- Audio file meta data (sound waves & level of emotions)
- Bit rate
- Comments Num & Favs Num
- Listens Num
- Genre
- Album Cluster
- Track Cluster

some legit insights from data

track	track_id	title	genres_all	genre_top	dur.	listens	album	listens	tags	artist name	location
150073	Welcome to Asia	[2, 79]	International	81	683	Reprise	4091	[world music, dubtronica, fusion]	DubRaJah	Russia	
140943	Sleepless Nights	[322, 5]	Classical	246	1777	Creative Commons Vol. 7	28900	[classical, alternate, soundtrack, piano, ...]	Dexter Britain	United Kingdom	
64604	i dont want to die alone	[32, 38, 456]	Experimental	138	830	Summer Gut String	7408	[improvised, minimalist, noise, ...]	Buildings and Mountains	Oneonta, NY	
23500	A Life In A Day	[236, 286, 15]	Electronic	264	1149	A Life in a Day	6691	[idm, candlestick, romanian, candle, ...]	Candlestickmaker	Romania	
131150	Yeti-Bo-Betty	[25, 12, 85]	Rock	124	183	No Life After Crypts	3594	[richmond, fredericksburg, trash rock, ...]	The Crypts!	Fredericksburg	



Sign Up

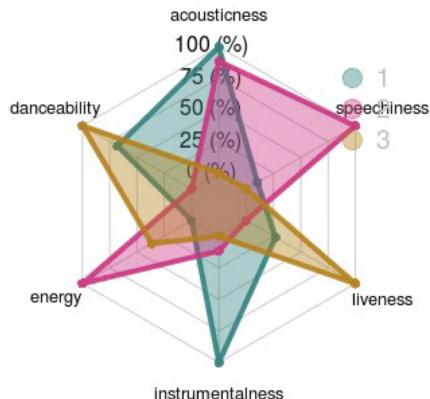
Recommendations

- ▶ Ed Sheeran - Perfect
- ▶ Selena Gomez- Back
- ▶ A.W.O.L - New York
- ▶ Sergey Cher - Dream
- ▶ Dexter Britain - Raising

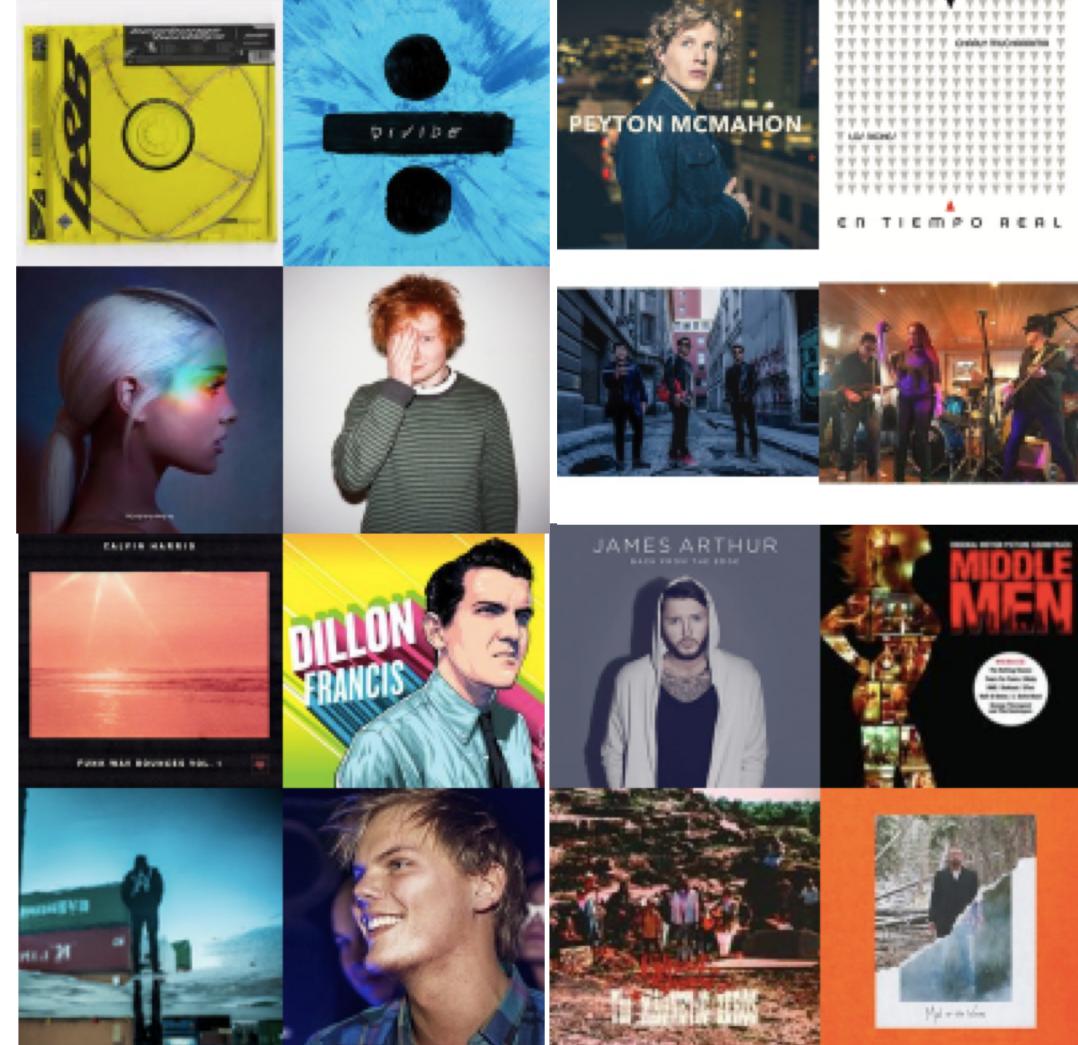
Perfect
By Ed Sheeran



Radar Chart



Browse Music



current stage of development

Exploratory Data Analysis – Done

Albums Clusterization – Done

Tracks Clusterization – Done

Streaming Web Scraping – Done

Recommender System Prototype – Done

Shiny Prototype – Done

use case: indie lover



Shiny prototype link

goo.gl/QHrmSr

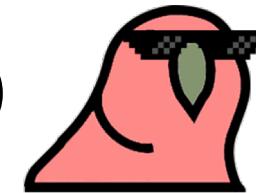
what is yet to come

Recommender System:

More features used (e.g. genres)

Another model + Models effectiveness

Maybe song lyrics features (t.m., LDA)



Shiny App:

Architecture building

Design

Maybe Server Database

& Minor details

keep up with us on GitHub at:

[goo.gl/QJ5cbg](https://github.com/QJ5cbg)

thank you for your attention