

Tiktok

October 2, 2022

```
[1]: import pandas as pd
import seaborn as sns
import matplotlib as plt
import numpy as py
```

```
[2]: df = pd.read_csv(r'C:\Users\Damian\Desktop\Tiktok_songs.csv')
```

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[3]: df
```

```
[3]:
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	track_name	artist_name	artist_pop	\
0	Say So	Doja Cat	88	
1	Blinding Lights	The Weeknd	93	
2	Supalonely (feat. Gus Dapperton)	BENEE	67	
3	Savage	Megan Thee Stallion	82	
4	Moral of the Story	Ashe	68	
..	
287	Buttons	The Pussycat Dolls	68	
288	Get Busy	Sean Paul	79	
289	ROCKSTAR (feat. Roddy Ricch)	DaBaby	82	
290	Who Says	Selena Gomez & The Scene	67	
291	Crystal Dolphin	Engelwood	50	

	album	track_pop	danceability	energy	loudness	mode	\
0	Hot Pink	80	0.787	0.673	-4.583	0	
1	After Hours	90	0.514	0.730	-5.934	1	
2	Hey u x	63	0.862	0.631	-4.746	1	
3	Suga	70	0.843	0.741	-5.609	1	
4	Moral of the Story	76	0.572	0.406	-8.624	1	
..	
287	PCD	65	0.570	0.821	-4.380	1	
288	Dutty Rock	74	0.735	0.824	-4.143	0	
289	BLAME IT ON BABY	80	0.746	0.690	-7.956	1	
290	When The Sun Goes Down	76	0.682	0.927	-2.915	1	
291	Crust FM	60	0.558	0.776	-6.868	1	

	key	speechiness	acousticness	instrumentalness	liveness	valence	\
0	11	0.1590	0.26400	0.000003	0.0904	0.779	
1	1	0.0598	0.00146	0.000095	0.0897	0.334	

2	7	0.0515	0.29100	0.000209	0.1230	0.841
3	11	0.3340	0.02520	0.000000	0.0960	0.680
4	10	0.0427	0.58700	0.000004	0.1020	0.265
..
287	2	0.2670	0.17800	0.000000	0.2890	0.408
288	10	0.0360	0.61500	0.000000	0.1580	0.726
289	11	0.1640	0.24700	0.000000	0.1010	0.497
290	4	0.0479	0.08430	0.000000	0.1490	0.744
291	9	0.1790	0.33000	0.000445	0.4100	0.247

	tempo	time_signature	duration_ms
0	110.962	4	237893
1	171.005	4	200040
2	128.978	4	223488
3	168.983	4	155497
4	119.812	4	201084
..
287	210.857	4	225560
288	100.202	4	211666
289	89.977	4	181733
290	101.019	4	195613
291	128.064	4	114660

[292 rows x 18 columns]

```
[4]: df_less = df.
      ↪drop(['key', 'mode', 'speechiness', 'acousticness', 'liveness', 'instrumentalness', 'time_signature',
      ↪axis=1)
```

```
[5]: df_less.isnull().sum()
```

```
[5]: track_name      0
     artist_name     0
     artist_pop      0
     album           0
     track_pop       0
     danceability     0
     energy           0
     loudness         0
     valence          0
     tempo            0
     duration_ms      0
     dtype: int64
```

```
[6]: df_less.describe()
```

```
[6]:
```

	artist_pop	track_pop	danceability	energy	loudness \
count	292.000000	292.000000	292.000000	292.000000	292.000000
mean	67.318493	61.19863	0.725404	0.612855	-6.884469
std	16.571140	20.78498	0.143129	0.163366	2.697198
min	0.000000	0.000000	0.174000	0.045800	-23.928000
25%	57.750000	57.000000	0.651000	0.489250	-8.369750
50%	69.000000	66.000000	0.734500	0.631000	-6.523000
75%	80.000000	74.000000	0.831750	0.729000	-4.983500
max	95.000000	90.000000	0.980000	0.955000	-2.607000

	valence	tempo	duration_ms
count	292.000000	292.000000	292.000000
mean	0.545168	119.770538	192805.212329
std	0.212719	25.609372	55763.157757
min	0.038900	71.994000	37632.000000
25%	0.389750	100.064000	158673.000000
50%	0.554500	119.967000	191130.000000
75%	0.712750	131.334750	221394.750000
max	0.967000	210.857000	467587.000000

```
[7]: df_less[df_less['duration_ms'] == max(df_less['duration_ms'])] #Najdłuższy utwór
```

```
[7]:
```

	track_name	artist_name	artist_pop	album	track_pop \
256	Let It Happen	Tame Impala	78	Currents	74

	danceability	energy	loudness	valence	tempo	duration_ms
256	0.602	0.881	-5.875	0.577	125.012	467587

```
[8]: df_less[df_less['duration_ms'] == min(df_less['duration_ms'])] #Najkrótszy utwór
```

```
[8]:
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	track_name	artist_name	artist_pop	album \
197	Knock at the Door	Playsongs People	25	Playsongs Rhyme Time

	track_pop	danceability	energy	loudness	valence	tempo	duration_ms
197	12	0.604	0.151	-23.928	0.216	209.082	37632

```
[9]: df[['artist_name', 'track_name', 'duration_ms']].head(15)
```

```
[9]:
```

	artist_name	track_name	duration_ms
0	Doja Cat	Say So	237893
1	The Weeknd	Blinding Lights	200040
2	BENEE	Supalonely (feat. Gus Dapperton)	223488
3	Megan Thee Stallion	Savage	155497
4	Ashe	Moral of the Story	201084
5	Lady Gaga	Rain On Me (with Ariana Grande)	182200
6	Lady Gaga	Babylon	161733
7	Lady Gaga	Replay	186653
8	Camila Cabello	My Oh My (feat. DaBaby)	170746

9	Dua Lipa	Physical	193829
10	BENEE	Glitter	180147
11	Ritt Momney	Put Your Records On	210463
12	Ariana Grande	Stuck with U (with Justin Bieber)	228482
13	Dua Lipa	Break My Heart	221820
14	Madison Beer	Selfish	223270

```
[10]: df['duration_minutes'] = df['duration_ms']/1000/60
```

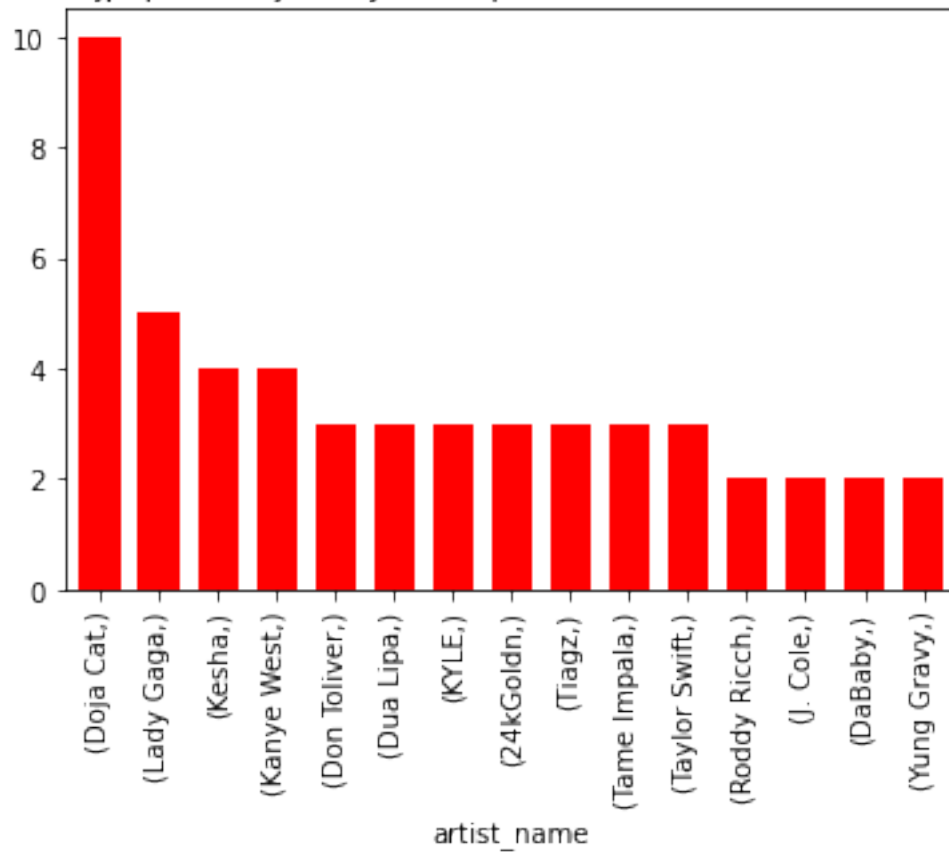
```
[11]: Top15 = df[['artist_name', 'track_name', 'duration_minutes']].head(15)
Top15.describe()
```

```
[11]:      duration_minutes
count      15.000000
mean        3.308161
std         0.425402
min         2.591617
25%         3.019558
50%         3.334000
75%         3.709083
max         3.964883
```

```
[12]: df[['artist_name']].value_counts().head(15).plot(kind='bar',
↳title='Najpopularniejsi artyści na platformie TikTok w roku 2020', color =
↳'red', width = 0.7)
```

```
[12]: <AxesSubplot:title={'center': 'Najpopularniejsi artyści na platformie TikTok w
roku 2020'}, xlabel='artist_name'>
```

Najpopularniejsi artyści na platformie TikTok w roku 2020



```
[13]: df[['artist_name']].value_counts().head(15).plot(kind='pie',
↳title="Najpopularniejsi artyści na platformie TikTok w roku 2020",
↳shadow=True, radius = 2.4, labeldistance = 1, autopct = "%0.2f%",
↳wedgeprops={'alpha':0.5})
```

```
[13]: <AxesSubplot:title={'center': 'Najpopularniejsi artyści na platformie TikTok w
roku 2020'}, ylabel='None'>
```

