Team Rattata Final/ Presentation



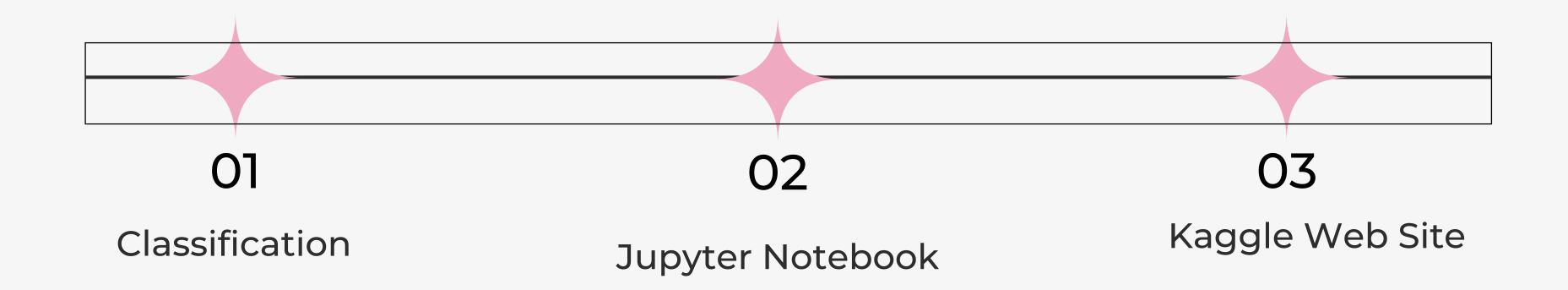
BLACKPINK

Why BLACKPINK?

BLACKPINK is one of the biggest global girl groups of this generation. They have fans from all over the world and are the most influential girl group in K-pop. Ever since their debut in 2016, the addition of BLACKPINK to K-pop has been a welcomed one, as they have quickly captured the hearts and minds worldwide.

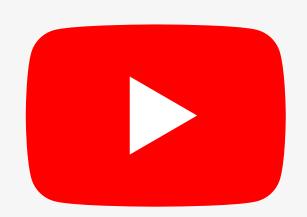


Methodology



BLASKPINK

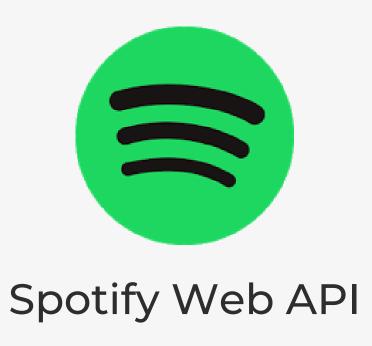
API's



Youtube Data API

Details of Youtube channels of kpop groups and BLACKPINK

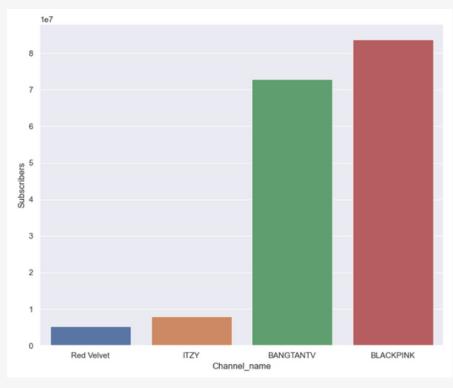
Details of youtube videos of kpop groups and BLACKPINK

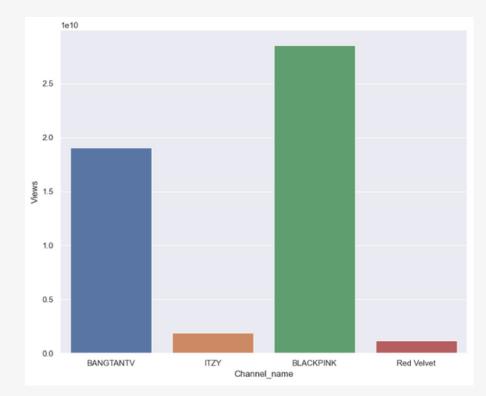


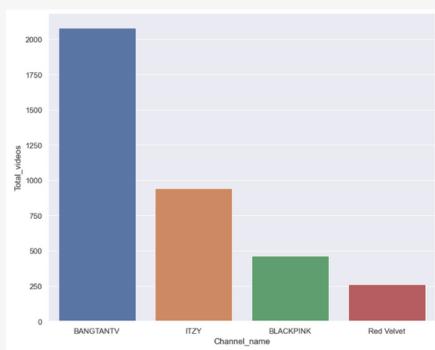
Audio features Kpop groups and BLACKPINK

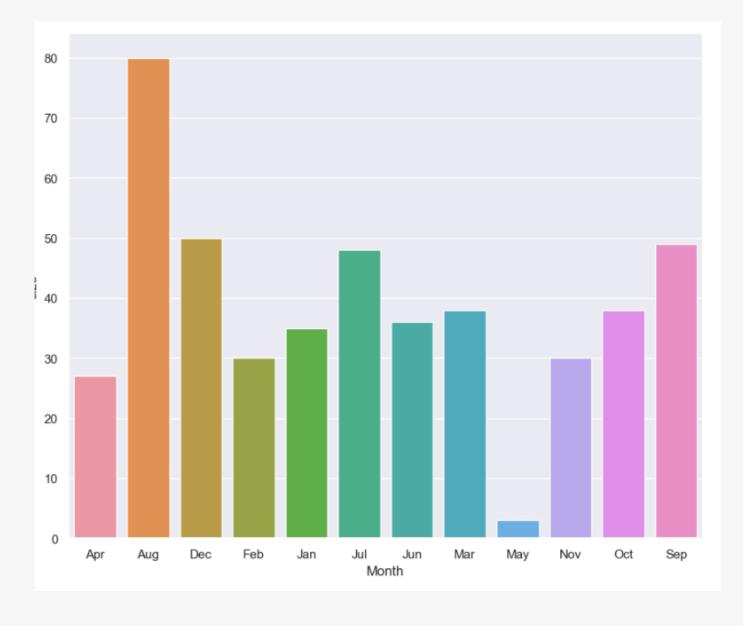


From Youtube Data API



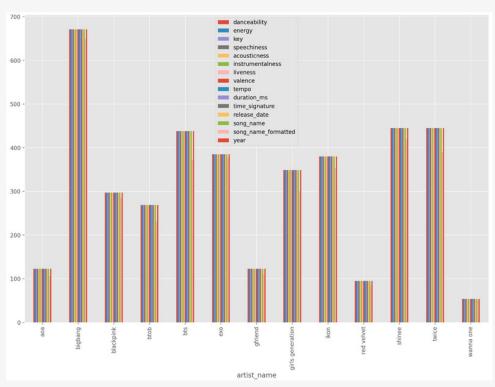




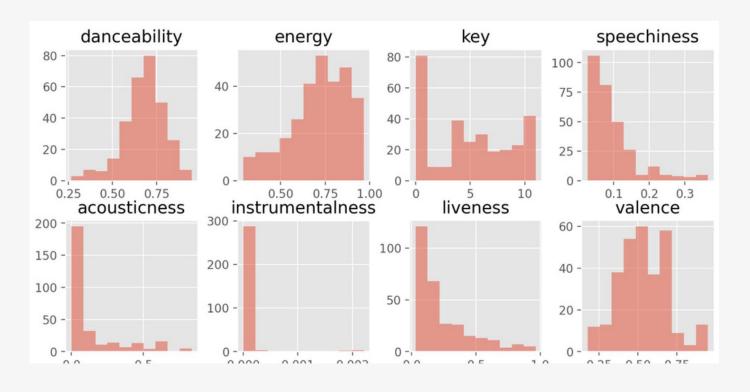


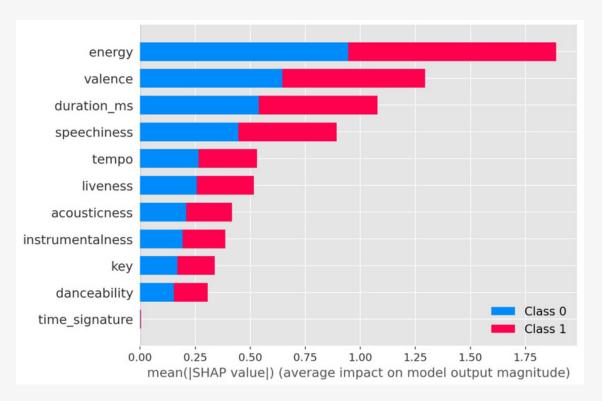


From Spotiyf Web API



	speechiness	instrumentalness	danceability	energy	acousticness
artist_name					
bts	0.172844	0.012400	0.601454	0.801566	0.118142
bigbang	0.108219	0.006586	0.582627	0.832900	0.109640
blackpink	0.095616	0.000055	0.675269	0.712017	0.136358
red velvet	0.094951	0.017682	0.668874	0.748158	0.224725
wanna one	0.094881	0.000000	0.616815	0.787222	0.199652
ikon	0.093867	0.028128	0.630211	0.796621	0.191380
exo	0.087405	0.028308	0.618177	0.779132	0.189418
shinee	0.083504	0.014346	0.637085	0.807092	0.143948
twice	0.079760	0.040576	0.720548	0.801283	0.154477
btob	0.075164	0.046887	0.625970	0.744164	0.269874
aoa	0.073649	0.098046	0.665081	0.847846	0.159874
irls generation	0.072917	0.052389	0.670790	0.797883	0.228858
afriend	0.054407	U 380820	0.617545	0.719066	0.253075



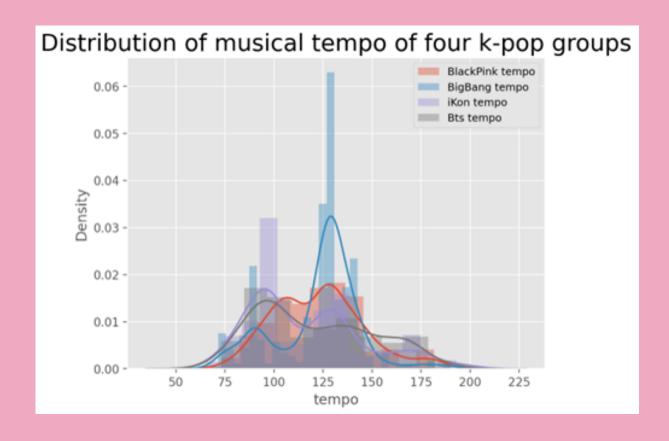


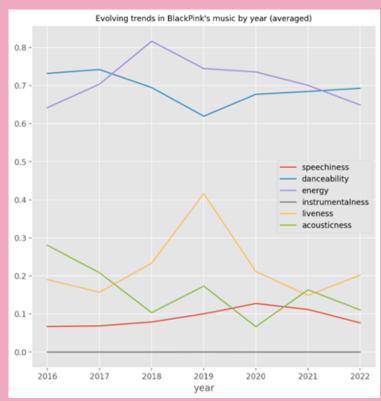
DataSets

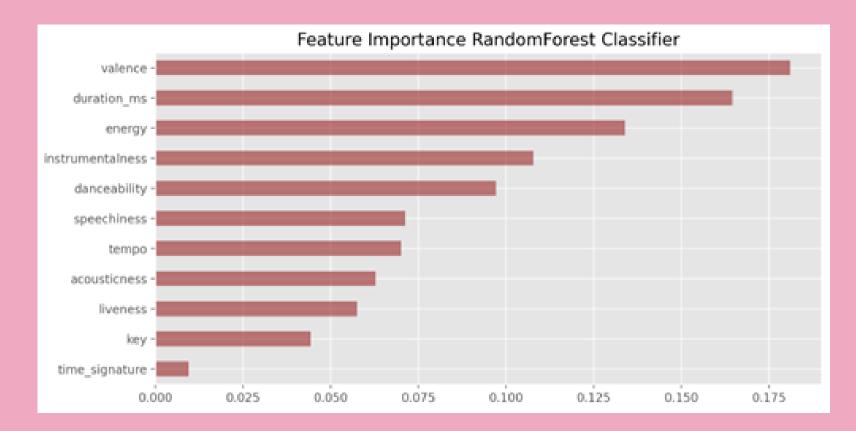
	danceabili	ty ener	gy key	speechiness	acousticness	instrumentalness
index						
830	0.794	0.71	9 0	0.0761	0.01190	0.000000
831	0.813	0.65	7 0	0.0372	0.00269	0.000000
832	0.918	0.58	5 7	0.0889	0.06270	0.000000
833	0.732	0.55	5 1	0.0340	0.00522	0.000005
834	0.647	0.72	3 5	0.0491	0.00503	0.000000
835	0.439	0.35	2 0	0.0570	0.58700	0.000000
836	0.693	0.60	5 7	0.0308	0.00817	0.000000
837	0.564	0.68	2 6	0.1130	0.01460	0.000000
838	0.688	0.74	L 4	0.1450	0.01700	0.000000
839	0.820	0.68	5 0	0.0380	0.00412	0.000000
	liveness	valence	tempo	duration_ms	time_signatu	re artist_name \
index						
830	0.2760	0.690	90.016	186964	4	blackpink
831	0.1830	0.651	110.053	175889	3	blackpink
832	0.6240	0.519	131.966	179173	4	blackpink
833	0.0586	0.650	124.011	178924	4	blackpink
834	0.1760	0.443	105.001	162570	4	blackpink

	danceabil:	i+v	energy	/ key	sneechiness	acquetioness	instrumentalness
index	uanceauti.	ıcy	ener gy	, key	speechiness	acoustichess	Tilaci ullelicatiless
0 0	0 162		0.951	2	0.1960	0.04890	0.0228
	0.163						
1	0.613		0.959		0.1020	0.39200	0.0000
2	0.473		0.977		0.3500	0.13100	0.0000
3	0.637		0.937	10	0.1240	0.04280	0.0000
4	0.562		0.866	11	0.0685	0.07970	0.0000
5	0.608		0.769	11	0.0556	0.43600	0.0000
6	0.641		0.798	7	0.0947	0.31600	0.0000
7	0.574		0.914	5	0.1290	0.12800	0.0000
8	0.586		0.857	8	0.0827	0.50200	0.0000
9	0.481		0.891	6	0.1600	0.00923	0.0000
	liveness	vale	ence	tempo	duration_ms	time_signatu	re target
index							
0	0.332	0.10	8 7	75.942	65573	4	0
1	0.354	0.28	32 1	16.012	225120	4	0
2	0.539	0.52	24 1	175.810	224560	4	0
3	0.756	0.33	9 1	17.989	240587	4	0
4	0.902	0.46	9 8	33.976	200560	4	0
5	0.879	0.37	'1 E	34.014	244053	4	0

Experiments







References

[1] Who is BLACKPINK? https://rachelombok.com/blackpink

[2] Data Analysis of K-pop: Playing with Spotify API https://nancyyanyu.github.io/posts/63adf3bb/

[3] What Is Clustering?

https://builtin.com/data-science/data-clustering-python

[4]What is LDA?

https://towardsdatascience.com/latent-dirichlet-allocation-lda-9d1cd064ffa2

[5]Extracting Song Data From the Spotify API Using Python https://towardsdatascience.com/extracting-song-data-from-the-spotify-api-using-python-ble79388d50 [6]How to combine multiple CSV files using Python for your analysis https://medium.com/@stella96joshua/how-to-combine-multiple-csv-files-using-python-for-your-analysis-a88017c6ff9e [7]Youtube Data API Reference

https://developers.google.com/youtube/v3/docs



BLACKPINK



Thank You For Listening ^_^

Necdet Kaan Özdoğan Berat Berkay Erken Mehmet Ümit Açık Zehra Yıldız Açıkgül