# FINAL PROJECT: Top 10000 Popular Movies Dataset

https://www.kaggle.com/datasets/omkarborikar/top-10000-popular-movies

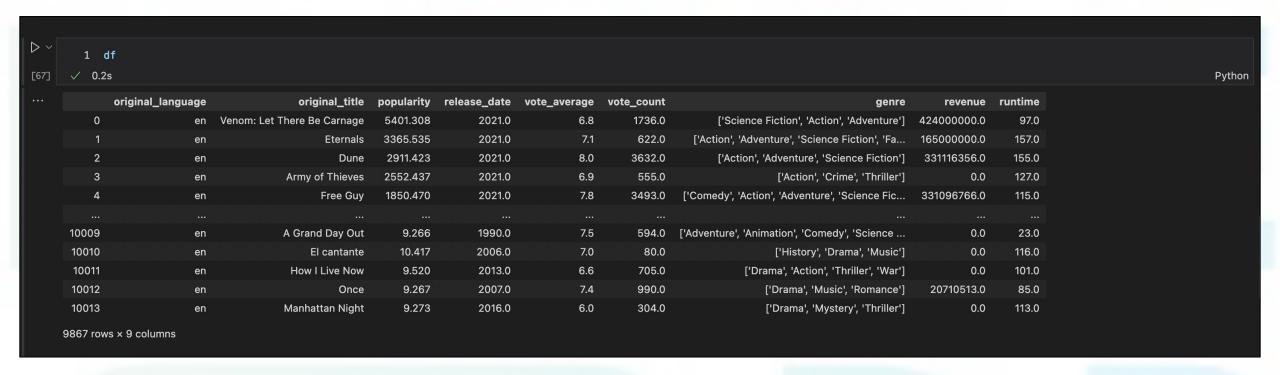
## Clean the Dataset:

√ <b>0.</b> 13													ı yalıdır
	Unnamed: 0	id	original_language	original_title	popularity	release_date	vote_average	vote_count	genre	overview	revenue	runtime	tagline
0	0	580489.0	en	Venom: Let There Be Carnage	5401.308	2021-09-30	6.8	1736.0	['Science Fiction', 'Action', 'Adventure']	After finding a host body in investigative rep	424000000.0	97.0	NaN
1	1	524434.0	en	Eternals	3365.535	2021-11-03	7.1	622.0	['Action', 'Adventure', 'Science Fiction', 'Fa	The Eternals are a team of ancient aliens who	165000000.0	157.0	In the beginning
2	2	438631.0	en	Dune	2911.423	2021-09-15	8.0	3632.0	['Action', 'Adventure', 'Science Fiction']	Paul Atreides, a brilliant and gifted young ma	331116356.0	155.0	Beyond fear, destiny awaits.
3	3	796499.0	en	Army of Thieves	2552.437	2021-10-27	6.9	555.0	['Action', 'Crime', 'Thriller']	A mysterious woman recruits bank teller Ludwig	0.0	127.0	Before Vegas, one locksmith became a legend.
4	4	550988.0	en	Free Guy	1850.470	2021-08-11	7.8	3493.0	['Comedy', 'Action', 'Adventure', 'Science Fic	A bank teller called Guy realizes he is a back	331096766.0	115.0	Life's too short to be a background character.
10009	9995	530.0	en	A Grand Day Out	9.266	1990-05-18	7.5	594.0	['Adventure', 'Animation', 'Comedy', 'Science	Wallace and Gromit have run out of cheese and	0.0	23.0	NaN
10010	9996	15934.0	en	El cantante	10.417	2006-09-12	7.0	80.0	['History', 'Drama', 'Music']	The rise and fall of salsa singer, Héctor Lavo	0.0	116.0	Based on the true story of the King of Salsa,
10011	9997	162215.0	en	How I Live Now	9.520	2013-09-10	6.6	705.0	['Drama', 'Action', 'Thriller', 'War']	An American girl on holiday in the English cou	0.0	101.0	Love will lead you home
10012	9998	5723.0	en	Once	9.267	2007-03-23	7.4	990.0	['Drama', 'Music', 'Romance']	A vacuum repairman moonlights as a street musi	20710513.0	85.0	How often do you find the right person?
10013	9999	311667.0	en	Manhattan Night	9.273	2016-05-20	6.0	304.0	['Drama', 'Mystery', 'Thriller']	Porter Wren is a Manhattan tabloid writer with	0.0	113.0	No reporter can resist a siren.

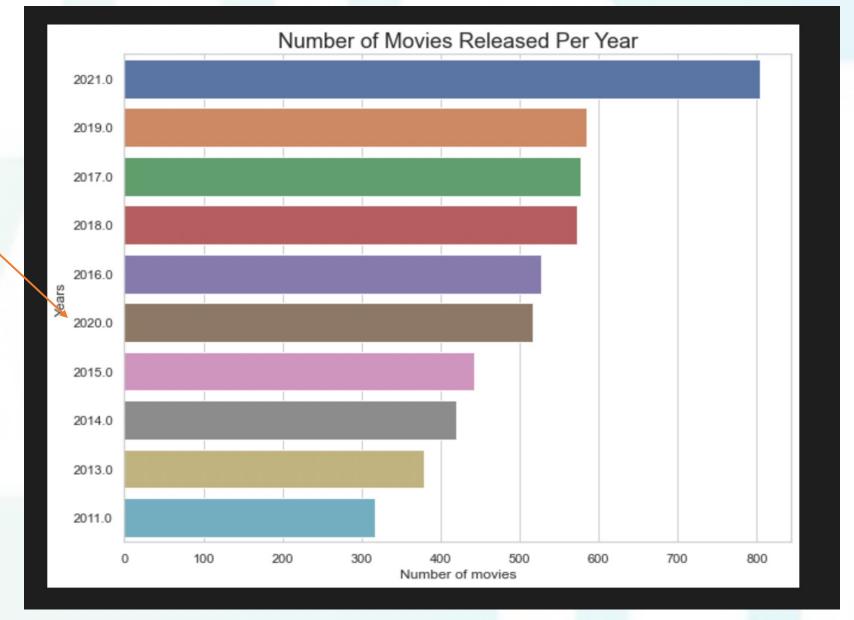
- id Every movie has its unique ID.
- **original\_language** There are total 44 languages present in this column. Total 7771 movies with 'English' as original language. Values in this column are ISO 639-1 codes of languages. I.e 'en' for 'English', 'hi' for 'Hindi' etc.
- original\_title Title of the movie.
- popularity Popularity of movie. Bigger the number , higher the popularity.
- release\_date Release date of the movie. If release date is not present for any movie, then that movie is not released yet.
- vote\_average Average of rating/vote for the movie.
- vote\_count Number of ratings/vote recorded for the movie.
- genre Genre of the movie.
- overview Brief description of movie in string format.
- revenue Revenue of Movie
- runtime Runtime of movie in minutes.
- tagline Tagline of the movie

#### Objectives:

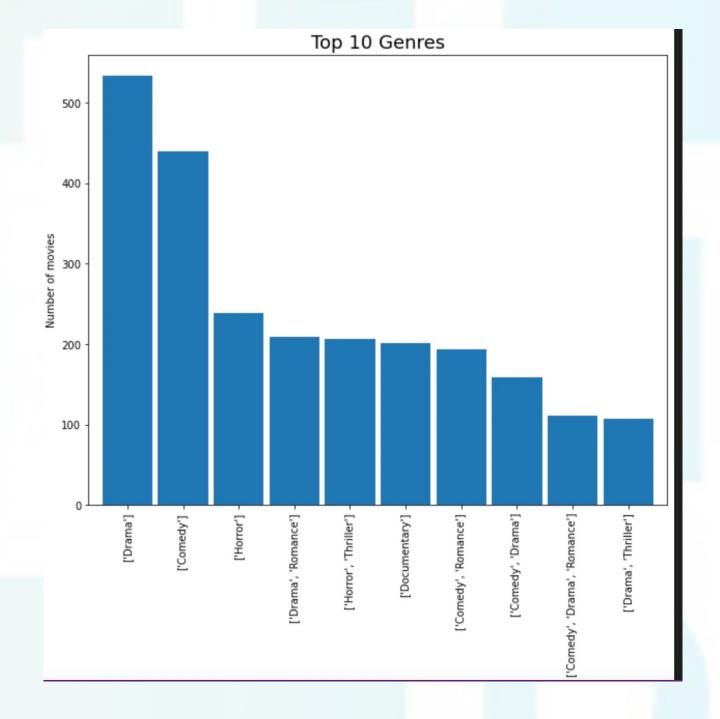
• Best Movie to Produce



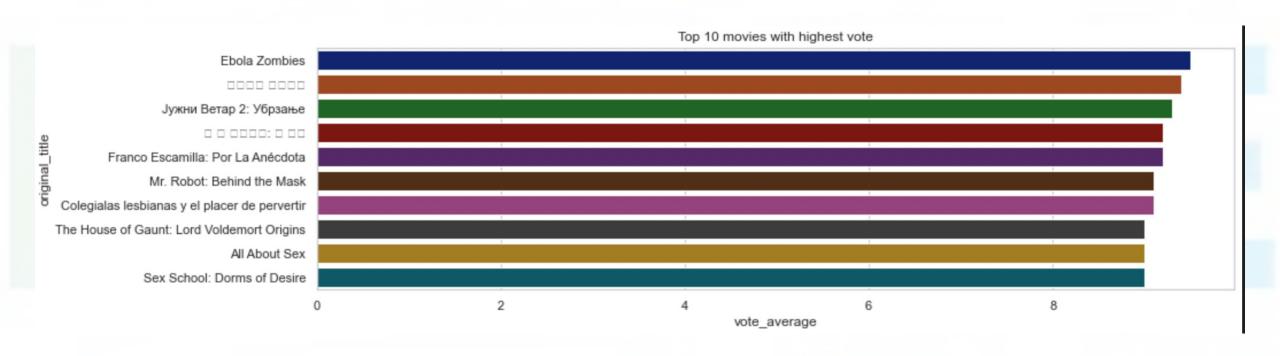
- a) Number of Movies Released per Year
- b) Does Covid affect the number of Movies released?



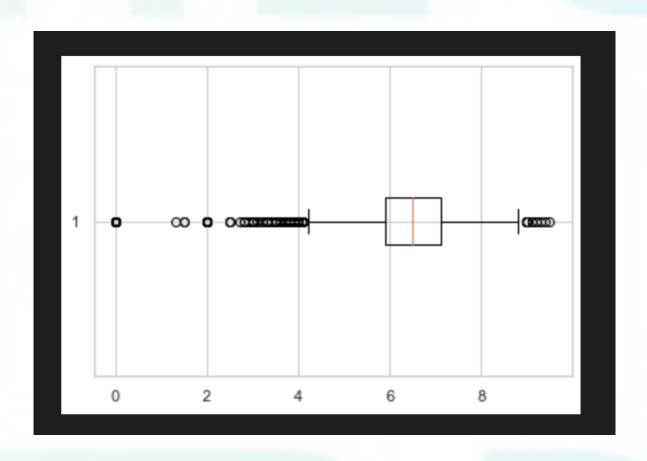
Finding the top 10 Genre:



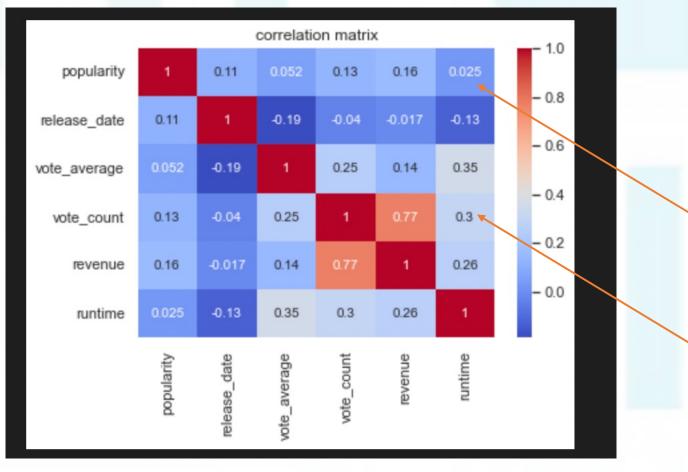
Finding the top 10 movies with the highest vote: Is it Valid?



### Outliers for Rating:

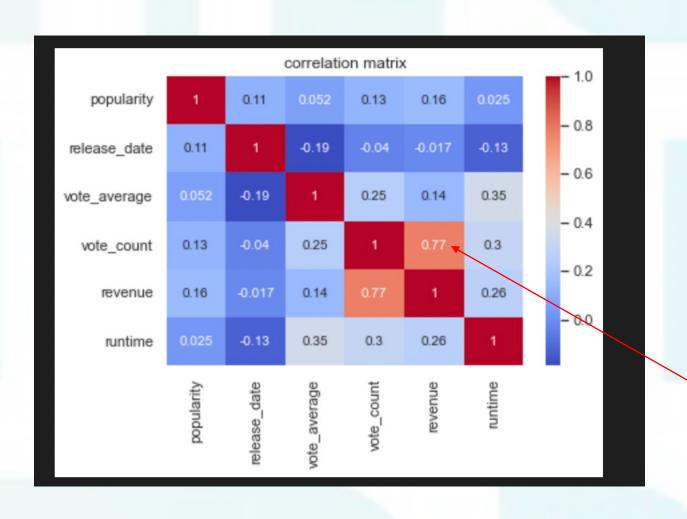


Is there any correlation between the runtime and vote count/popularity:

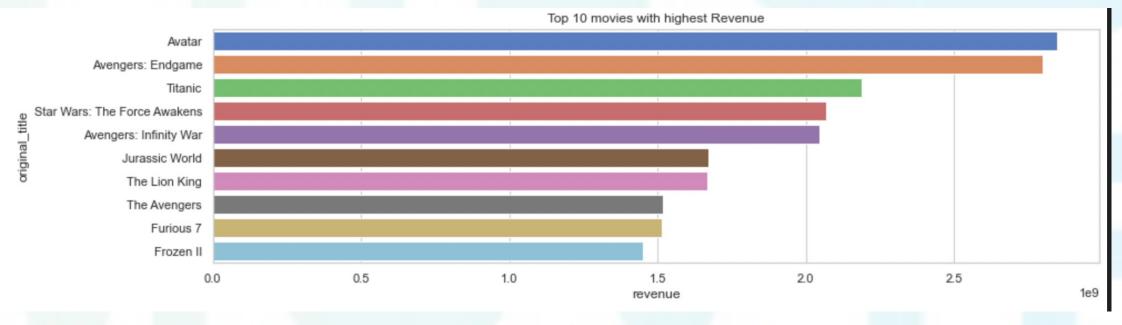


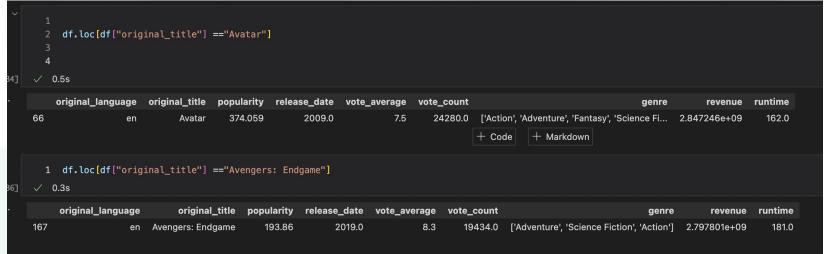
78]	1 df.describe()  v 0.3s										
		popularity	release_date	vote_average	vote_count	revenue	runtime				
	count	9818.000000	9818.000000	9818.000000	9818.000000	9.816000e+03	9813.000000				
	mean	34.758134	2007.475963	6.364575	1336.219291	5.827067e+07	99.869968				
	std	101.577757	14.657145	1.295426	2517.924189	1.492031e+08	27.096489				

Is there any correlation between there revenue and vote count:

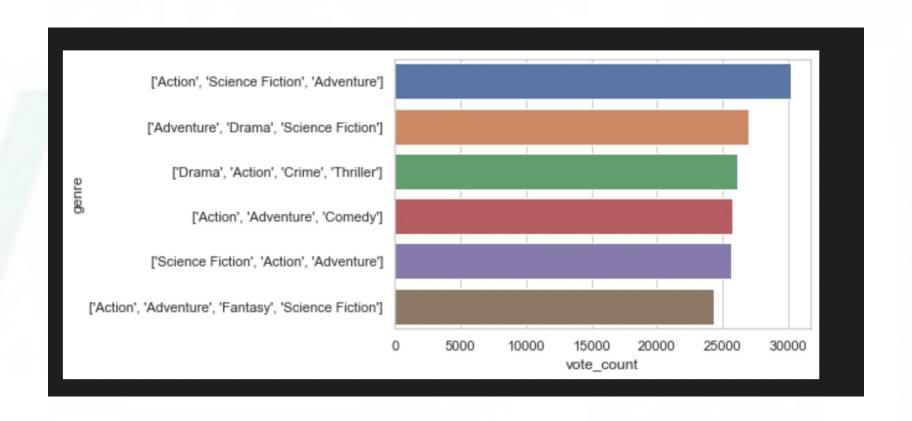


# Finding the top 10 movies with the highest revenue: [Action, Adventure, Science Fiction]





Finding the top 6 Genre with highest vote count:



So is it true that Movies with [Action/ Adventure/ Science] Fiction have high votes?

