Streaming Services Analysis

Group 4: Angie Tran, Jammy Lo, Jenette Smith, Juveriya Baig, Mark Burton

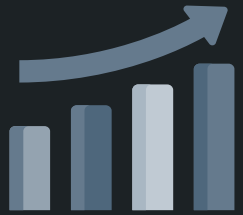
OVERVIEW

01

INSPIRATION

02

VISUALIZATIONS



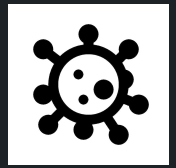
03

STATISTICAL ANALYSIS

01

INSPIRATION

Inspiration



COVID-19

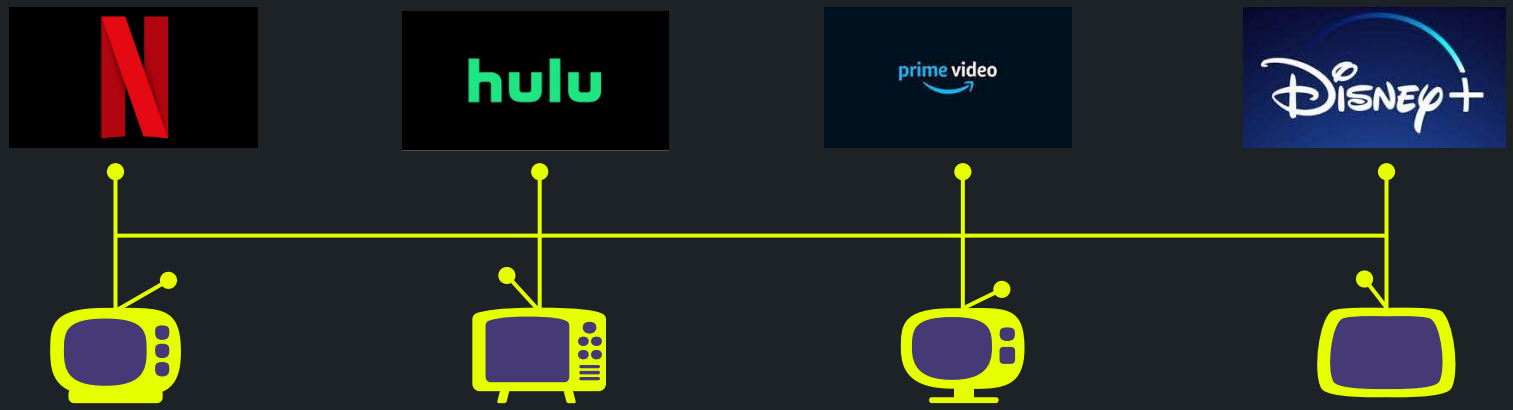
Relatable

Kaggle

OUR DATASETS

Movies & TV shows

#E50914 #3DBB3D #FF9900 #006E99



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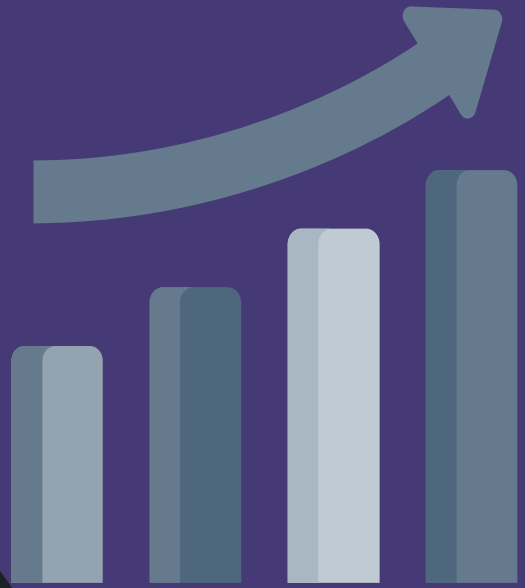
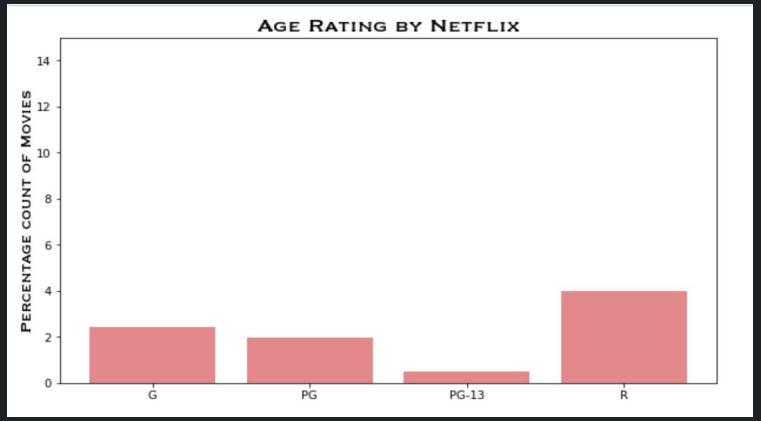
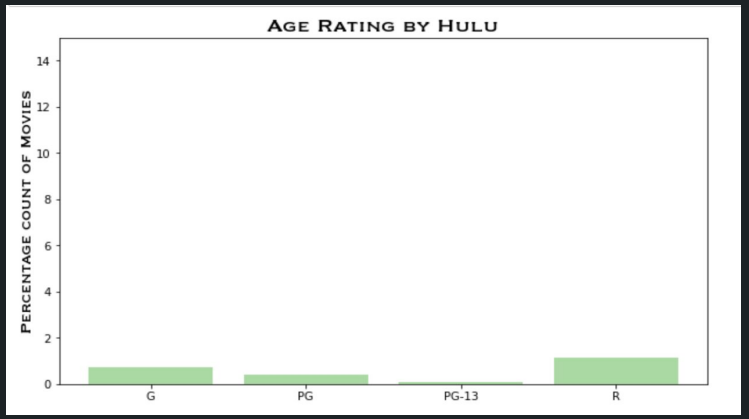
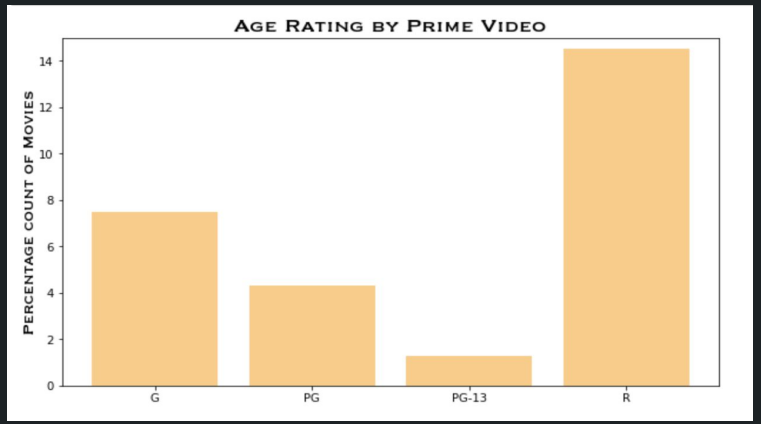


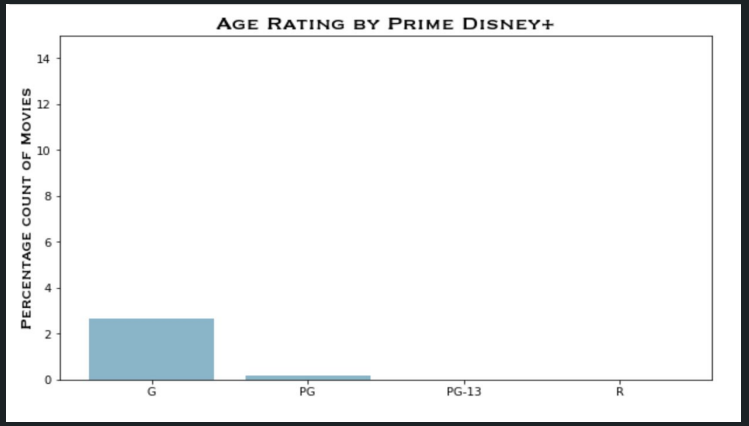
VISUALIZATIONS

MOVIE BAR CHARTS 1

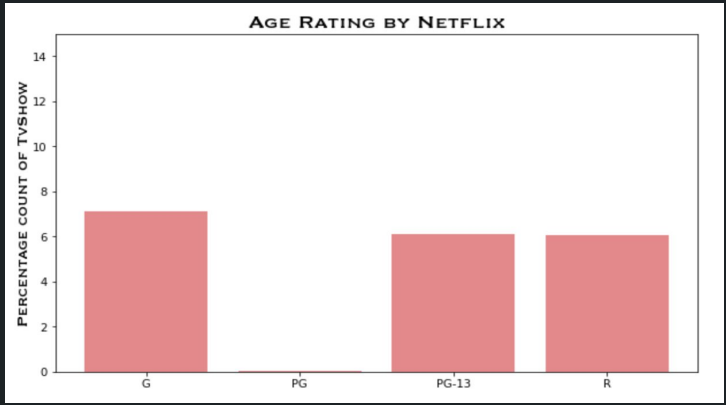


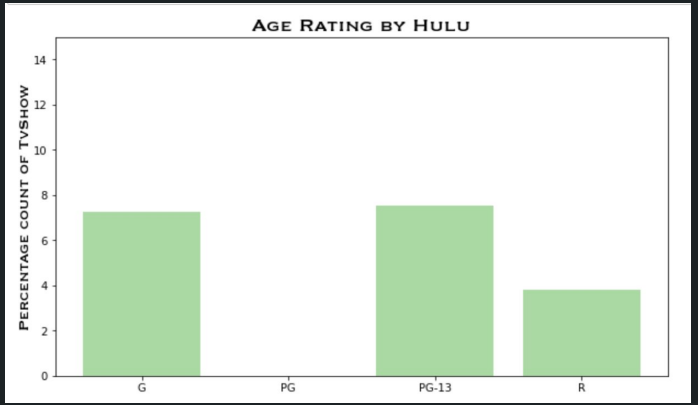


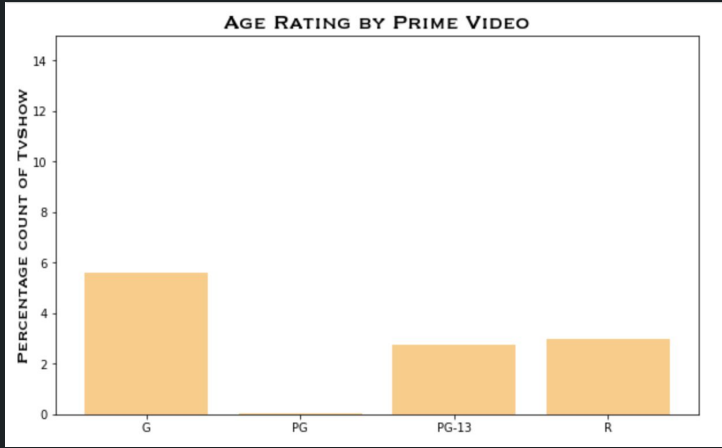


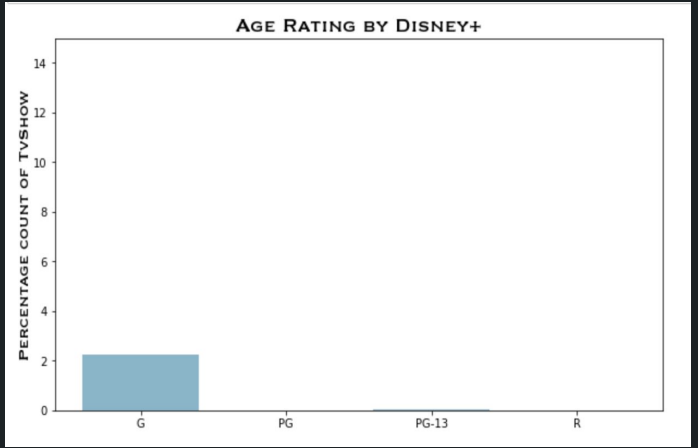


TV BAR CHARTS 1

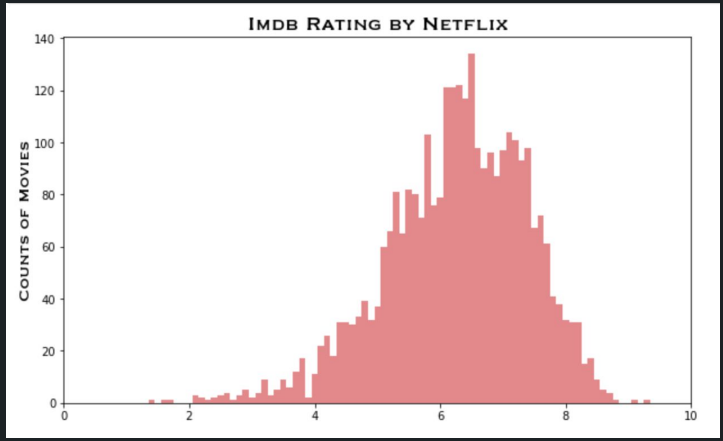


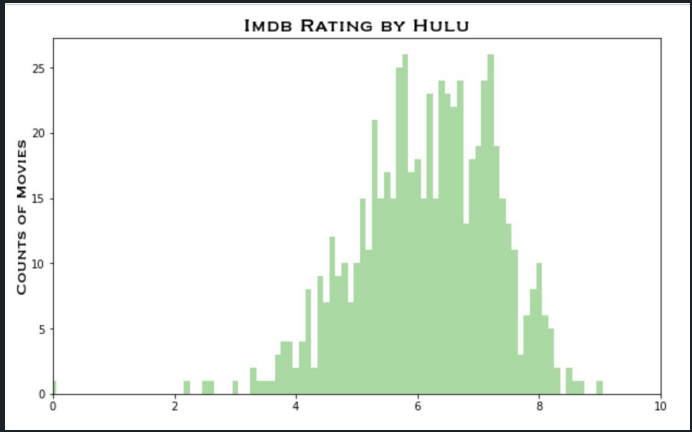


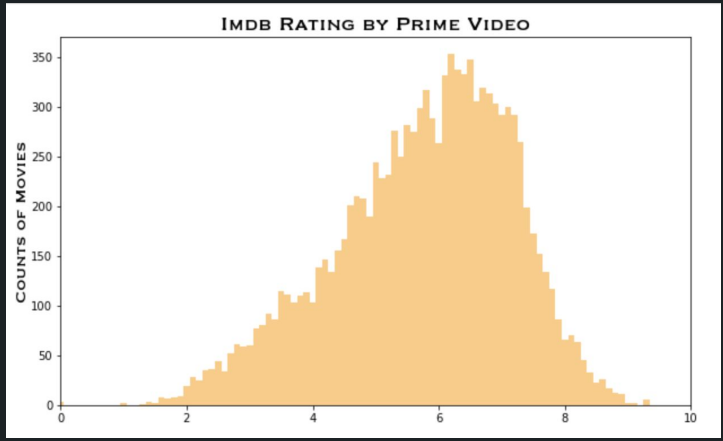


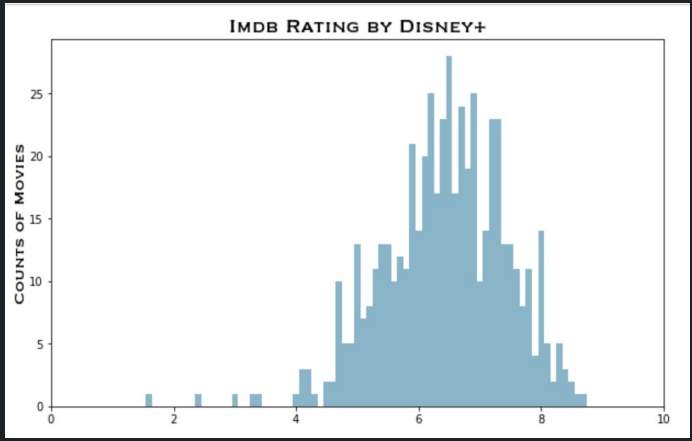


MOVIE BAR CHARTS 2

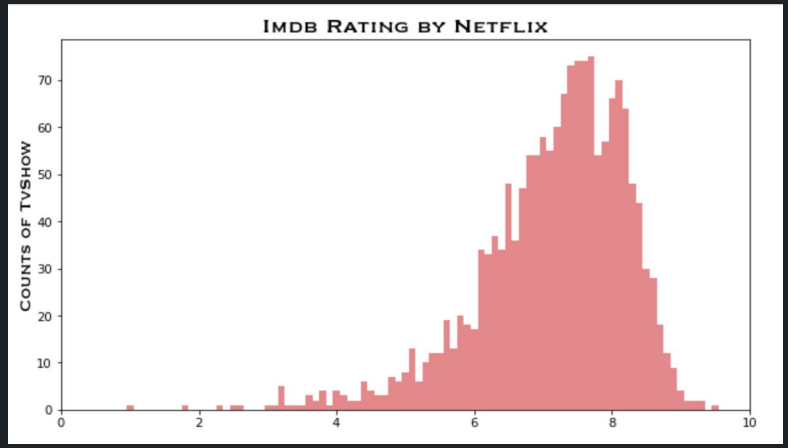


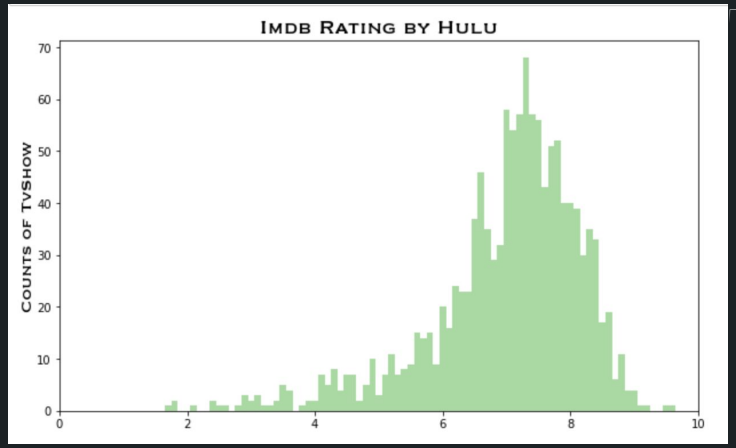


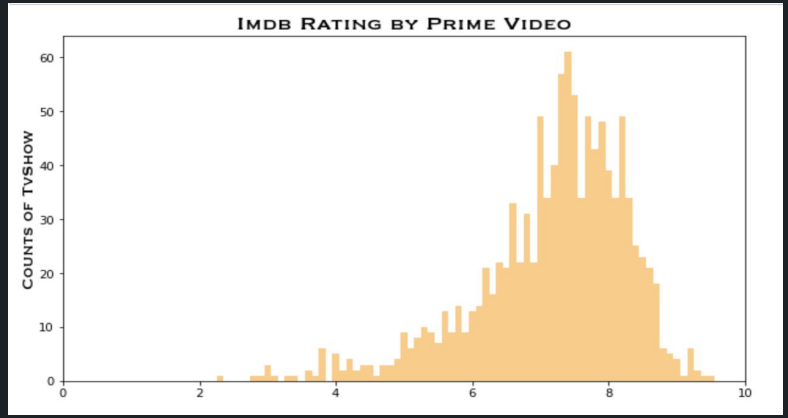


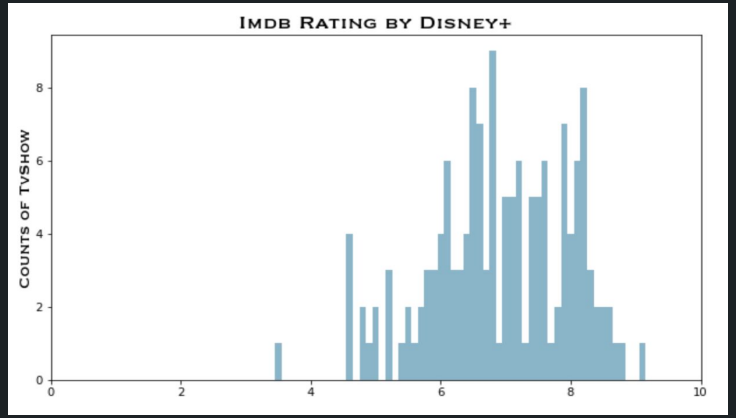


TV BAR CHARTS 2

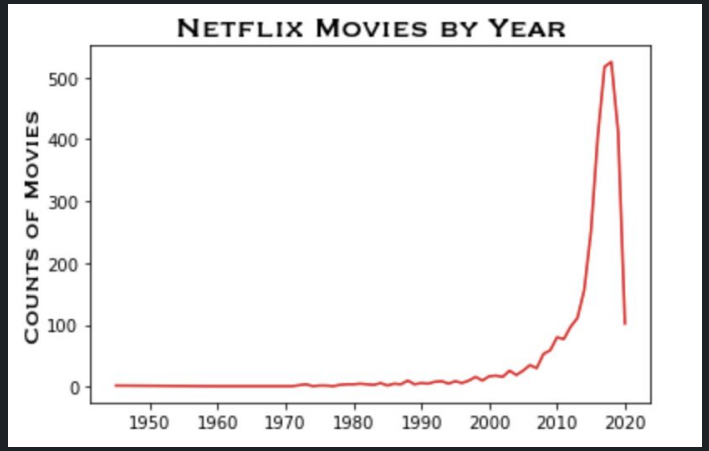


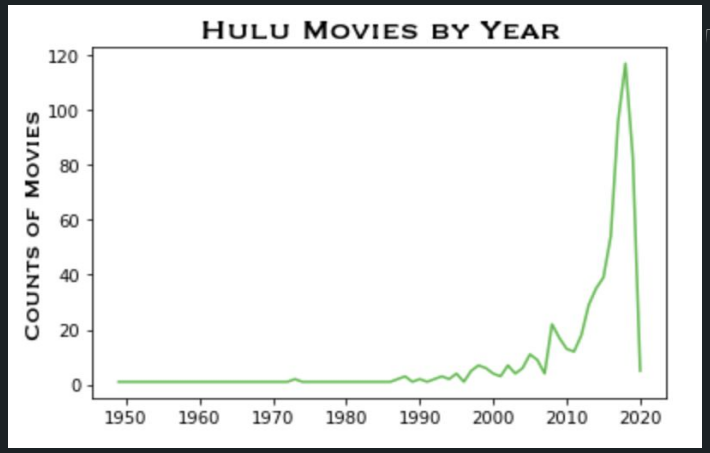


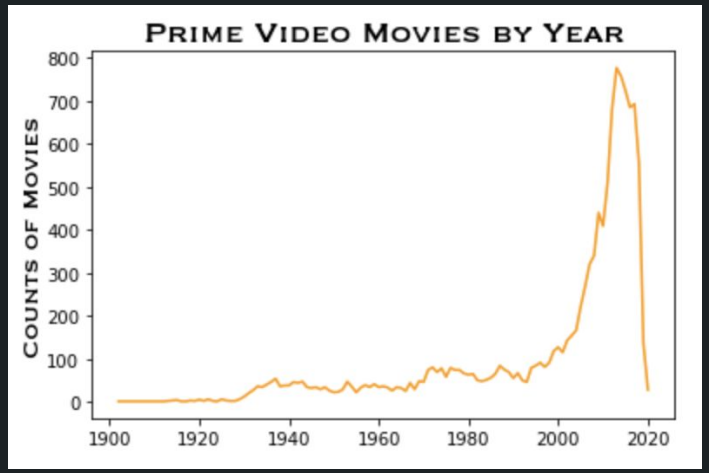


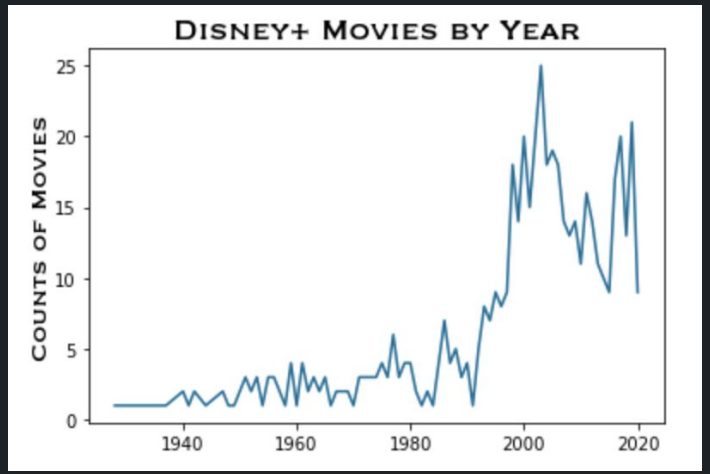


MOVIE LINE GRAPHS

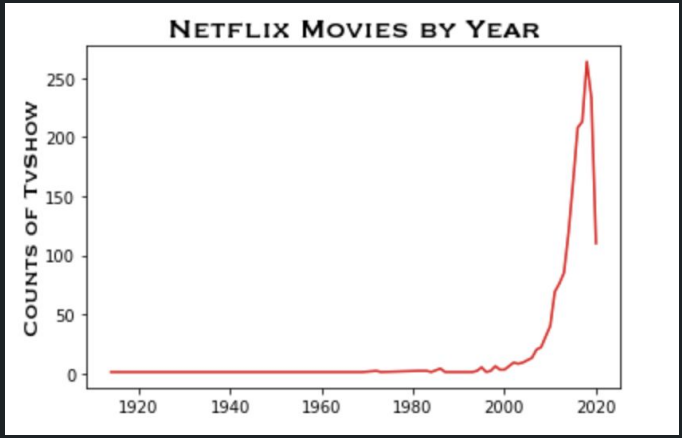


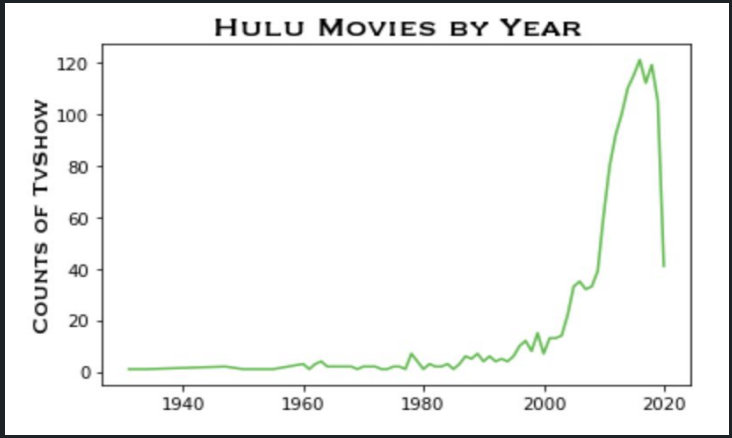


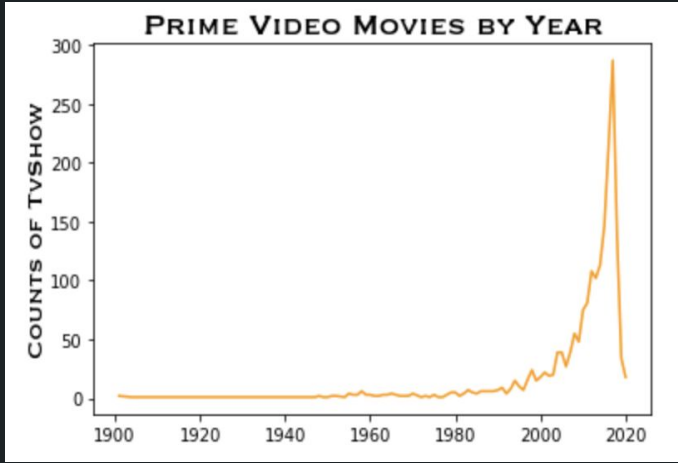


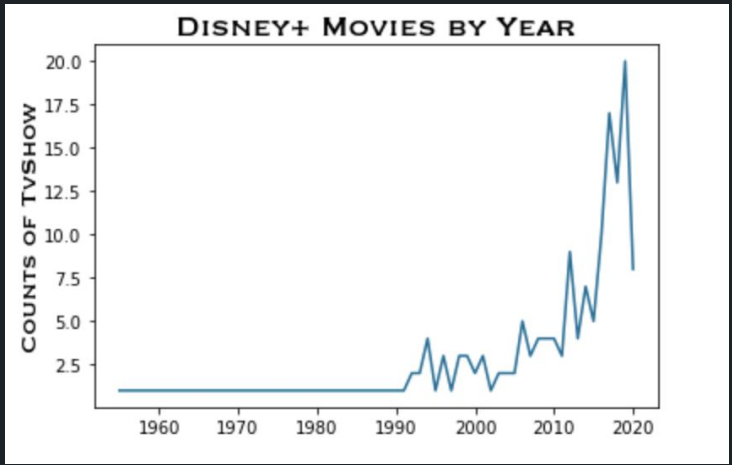


TV LINE GRAPHS





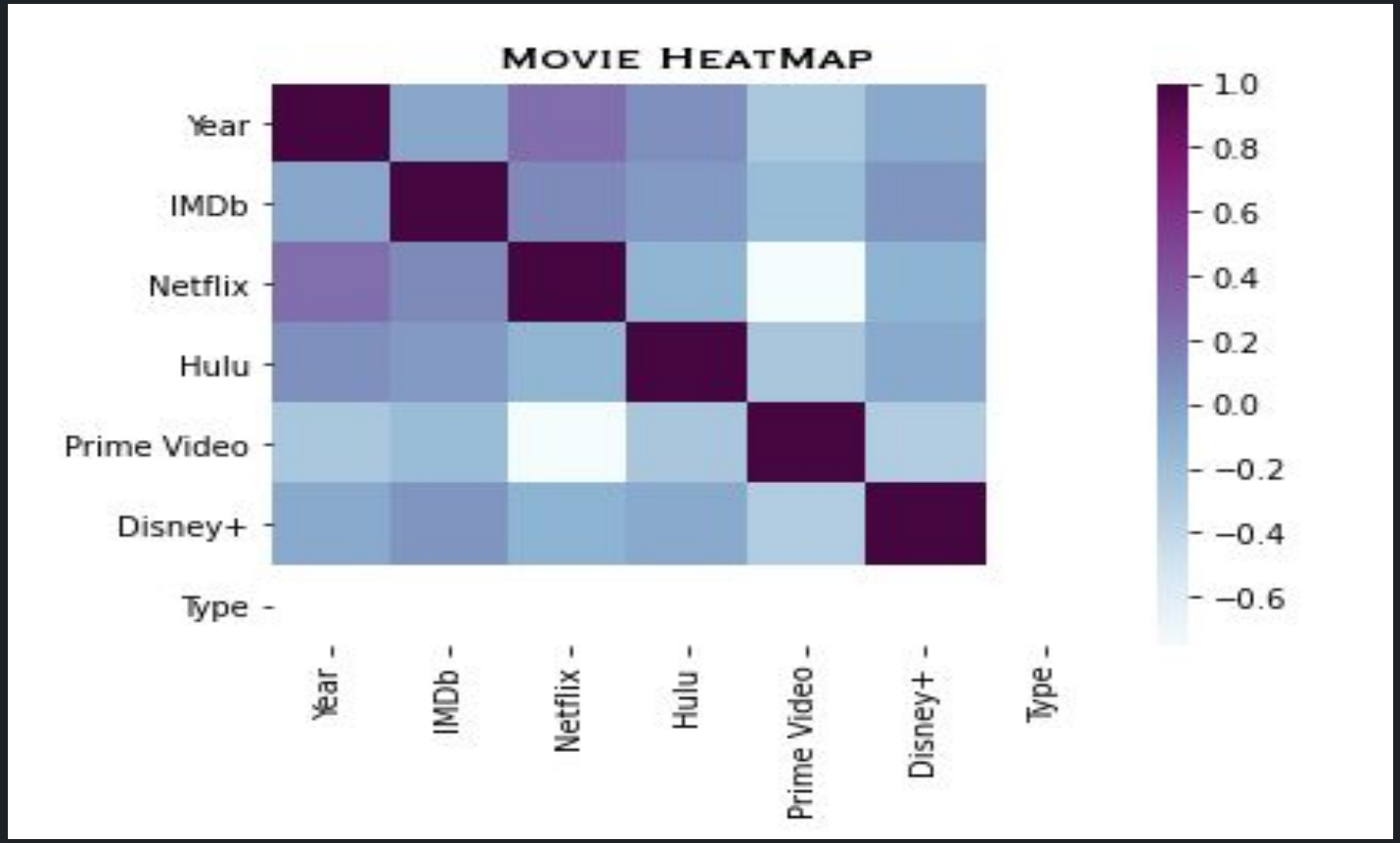




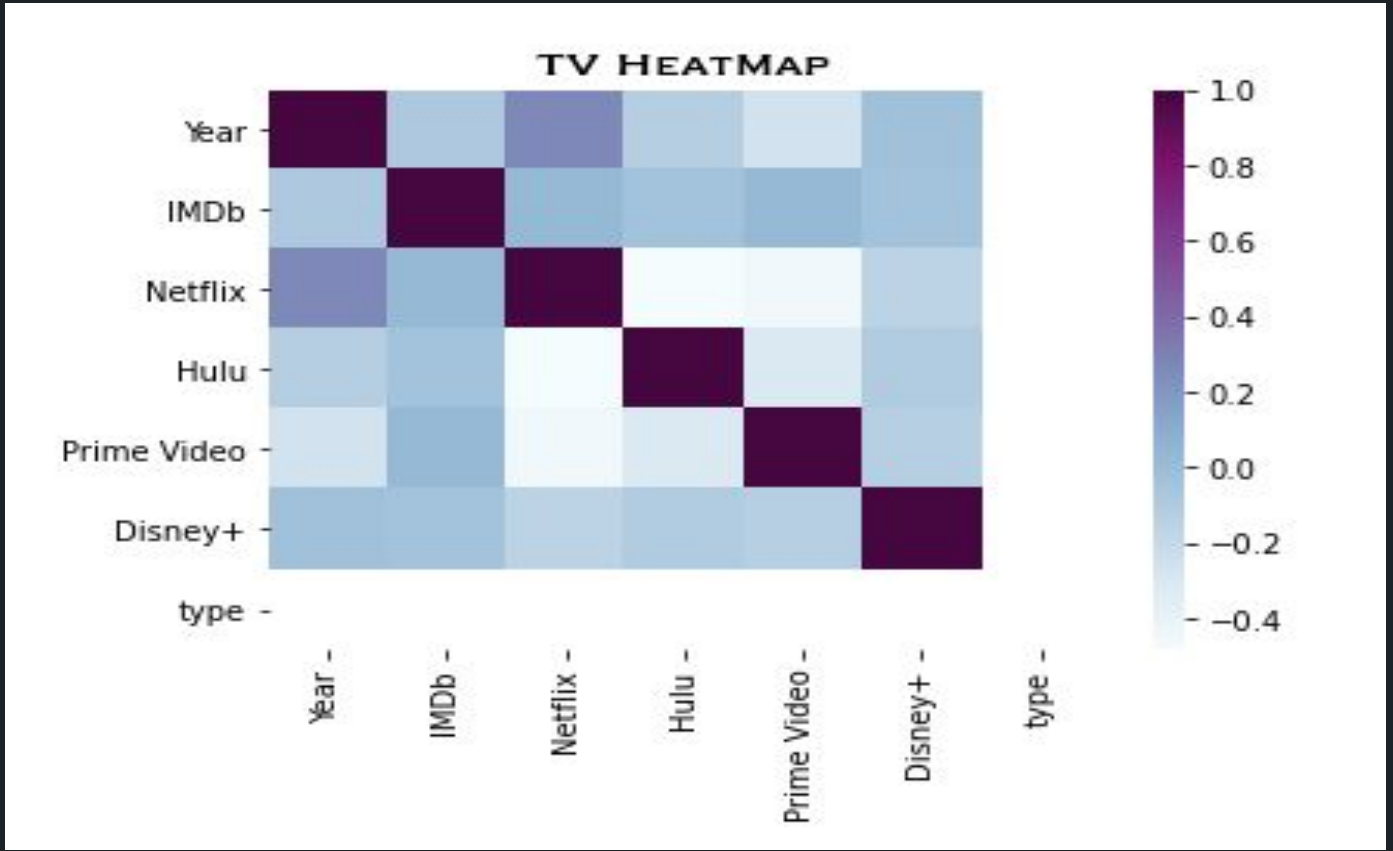
03

Statistical Analysis

Movie HeatMap



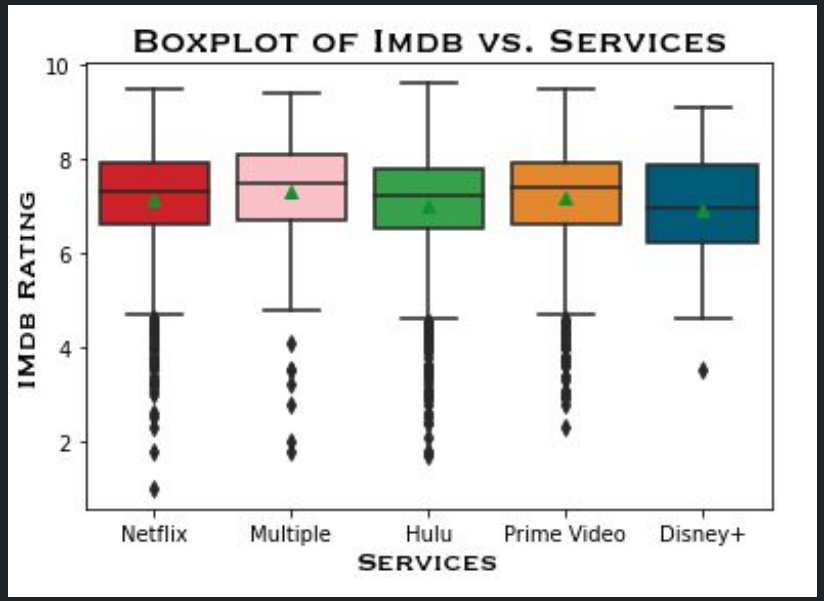
TV Show HeatMap

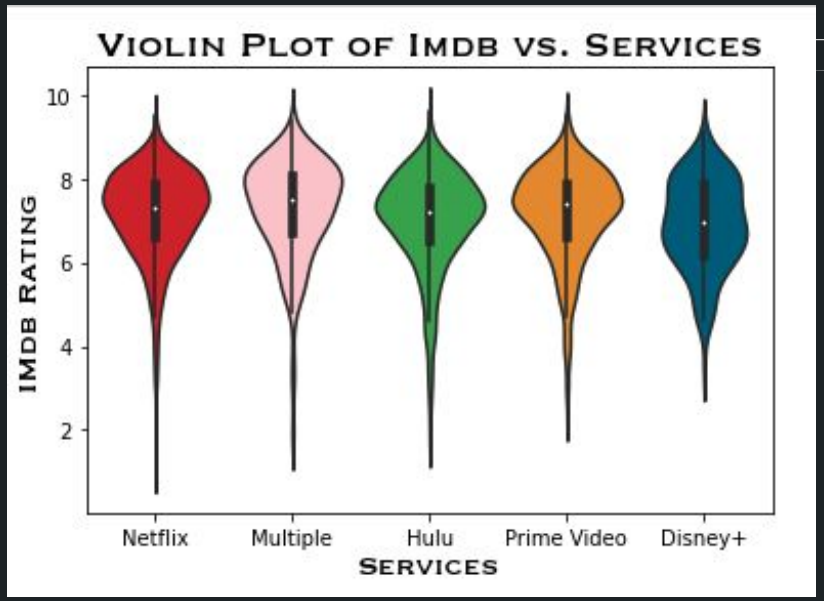


TV Shows Summary Statistics

Service	Total TV Shows	Average IMDb Score	Median IMDb Score	Variance of IMDb Score	St. Deviation of IMDb Score	St. Error IMDb Score
Disney+	146	6.910959	6.95	1.156569	1.075439	0.089004
Hulu	1251	6.992806	7.20	1.426124	1.194204	0.033764
Multiple	322	7.289441	7.50	1.379327	1.174448	0.065449
Netflix	1637	7.149786	7.30	1.167966	1.080725	0.026711
Prime Video	1094	7.171481	7.40	1.242205	1.114543	0.033697

TV Show Service Rankings



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Netflix vs. Hulu: Ttest_indResult(statistic=3.6463060547800894, pvalue=0.00027137441595873345)
Netflix vs. Prime Video: Ttest_indResult(statistic=-0.5045325817570749, pvalue=0.6139356461863421)
Netflix vs. Disney+: Ttest_indResult(statistic=2.570089063461629, pvalue=0.011013958199669294)
Hulu vs. Prime Video: Ttest_indResult(statistic=-3.745669680387388, pvalue=0.00018427206685950345)
Hulu vs. Disney+: Ttest_indResult(statistic=0.8597998243815425, pvalue=0.390987056685557)
Prime Video vs. Disney+: Ttest_indResult(statistic=2.7374605550047564, pvalue=0.006782744991005879)
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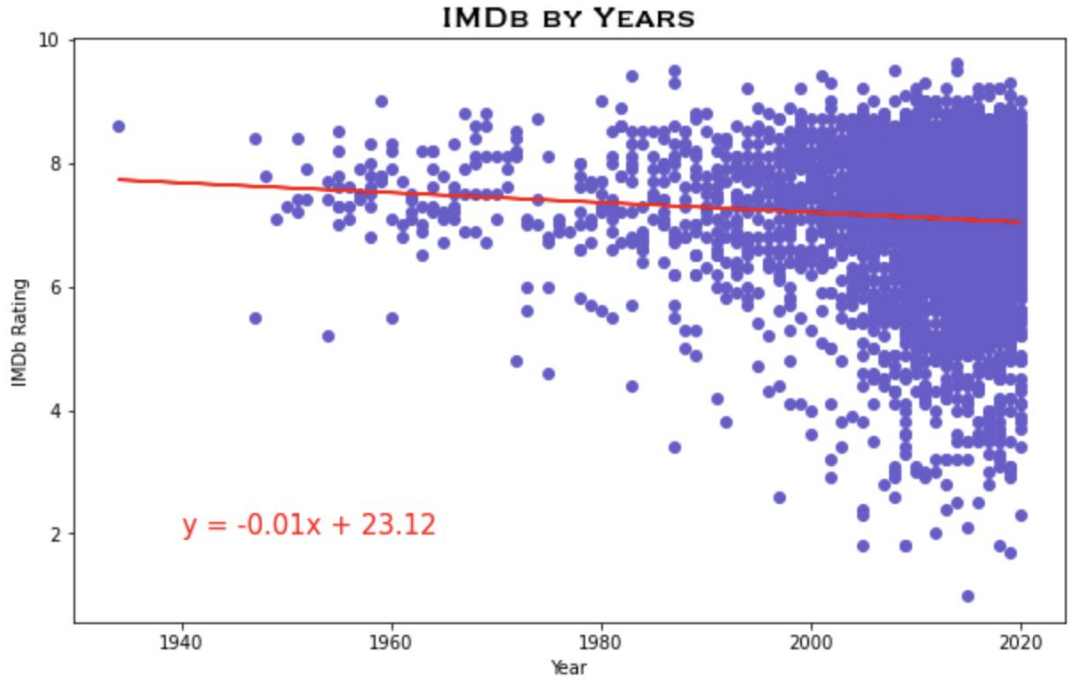
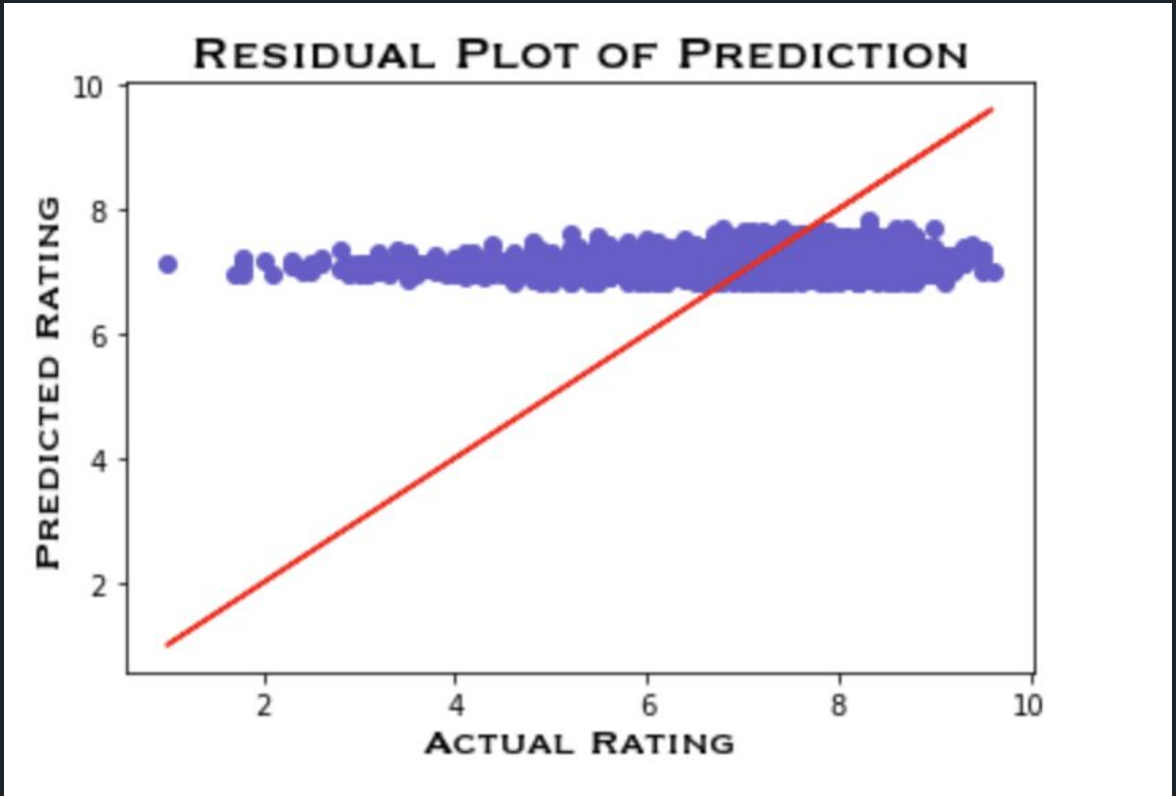
TV Shows Regression

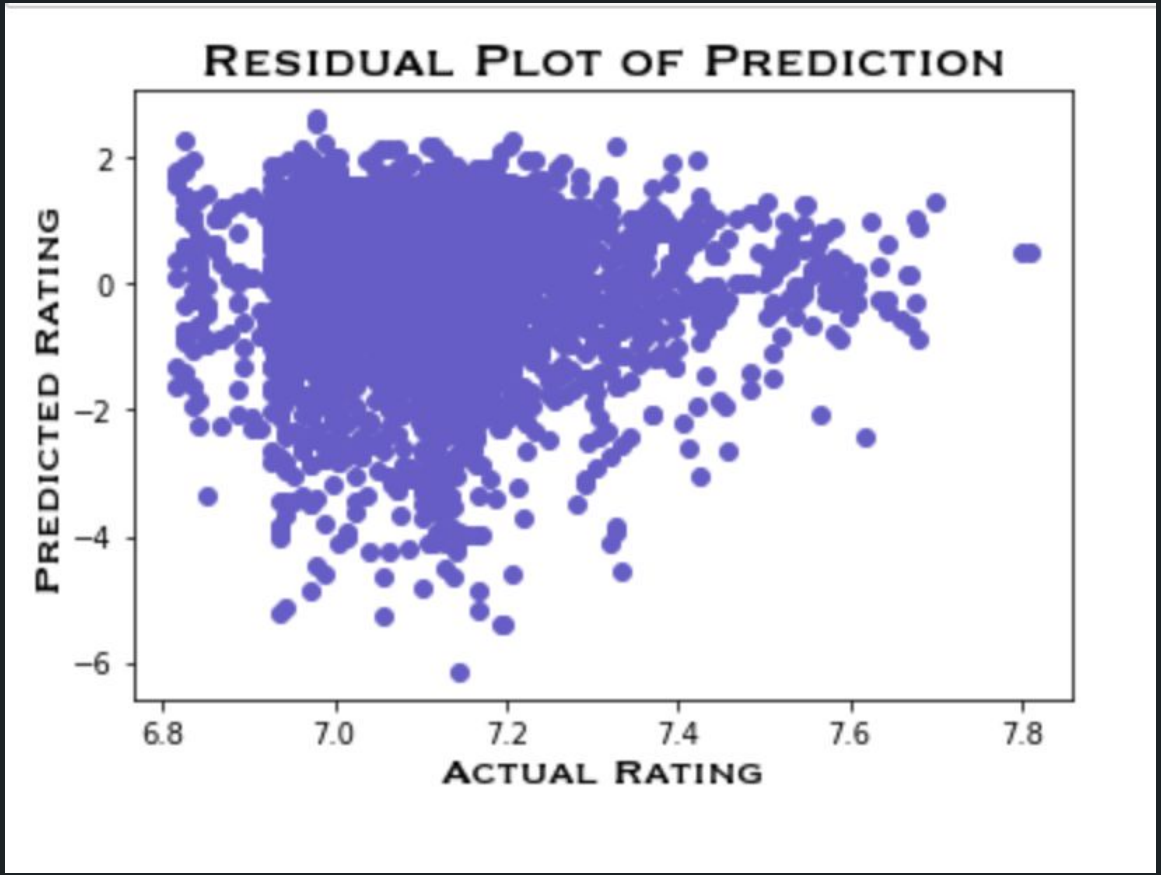
y = -0.01x + 23.12
The correlation between both factors is -0.08



TV Shows Prediction



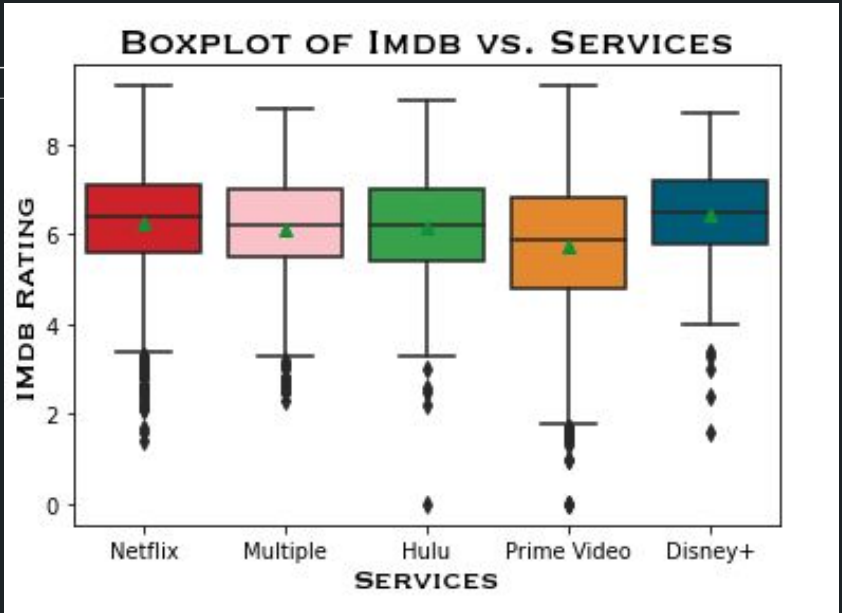
TV Shows Prediction Error

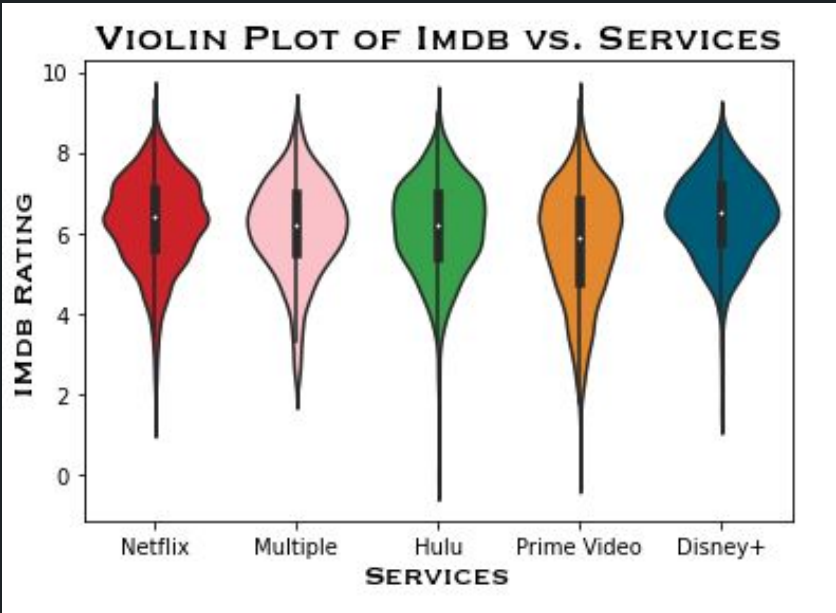


Movies Summary Statistics

Service	Total Movies	Average IMDb Score	Median IMDb Score	Variance of IMDb Score	St. Deviation of IMDb Score	St. Error IMDb Score
Disney+	531	6.433333	6.5	1.016679	1.008305	0.043757
Hulu	630	6.152698	6.2	1.298999	1.139736	0.045408
Multiple	622	6.134084	6.2	1.368112	1.169663	0.046899
Netflix	3074	6.265322	6.4	1.277385	1.130214	0.020385
Prime Video	11316	5.752731	5.9	1.976898	1.406022	0.013217

Movies Service Rankings



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Netflix vs. Hulu: Ttest_indResult(statistic=2.2627016336457446, pvalue=0.02389154620399159)
Netflix vs. Prime Video: Ttest_indResult(statistic=21.098688237131842, pvalue=2.4683702188657623e-95)
Netflix vs. Disney+: Ttest_indResult(statistic=-3.480505317767598, pvalue=0.0005283213896018931)
Hulu vs. Prime Video: Ttest_indResult(statistic=8.457277318492029, pvalue=1.4549328759689867e-16)
Hulu vs. Disney+: Ttest_indResult(statistic=-4.450289858269554, pvalue=9.403602923708048e-06)
Prime Video vs. Disney+: Ttest_indResult(statistic=-14.889773928295442, pvalue=3.4320512233361647e-43)
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Movies Regression

y = -0.0x + 8.64
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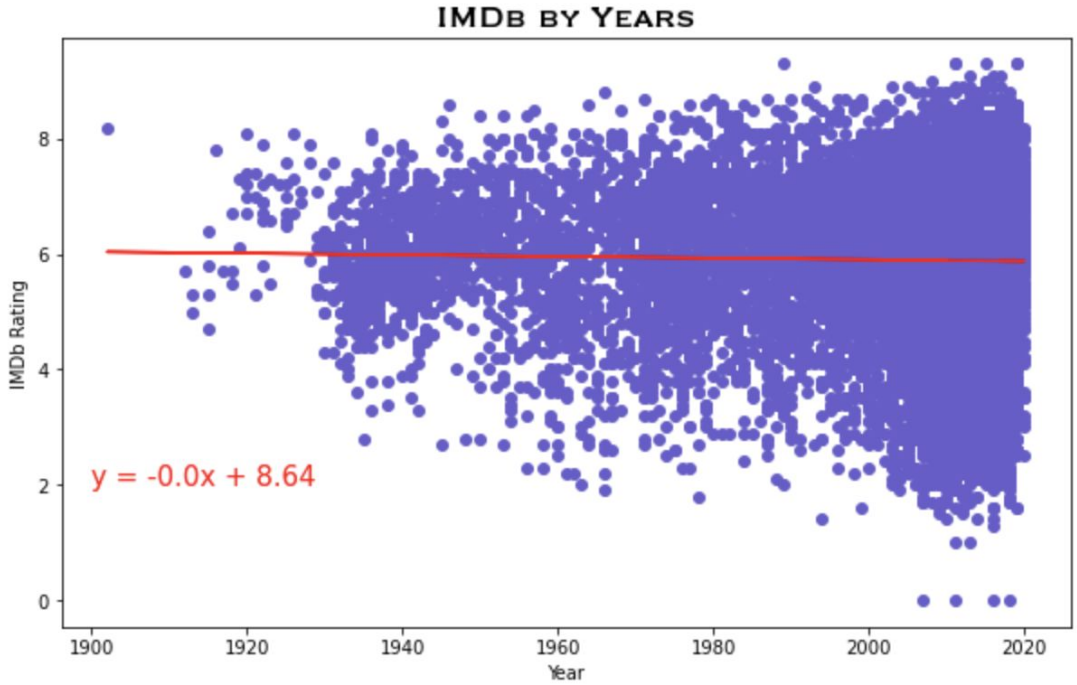
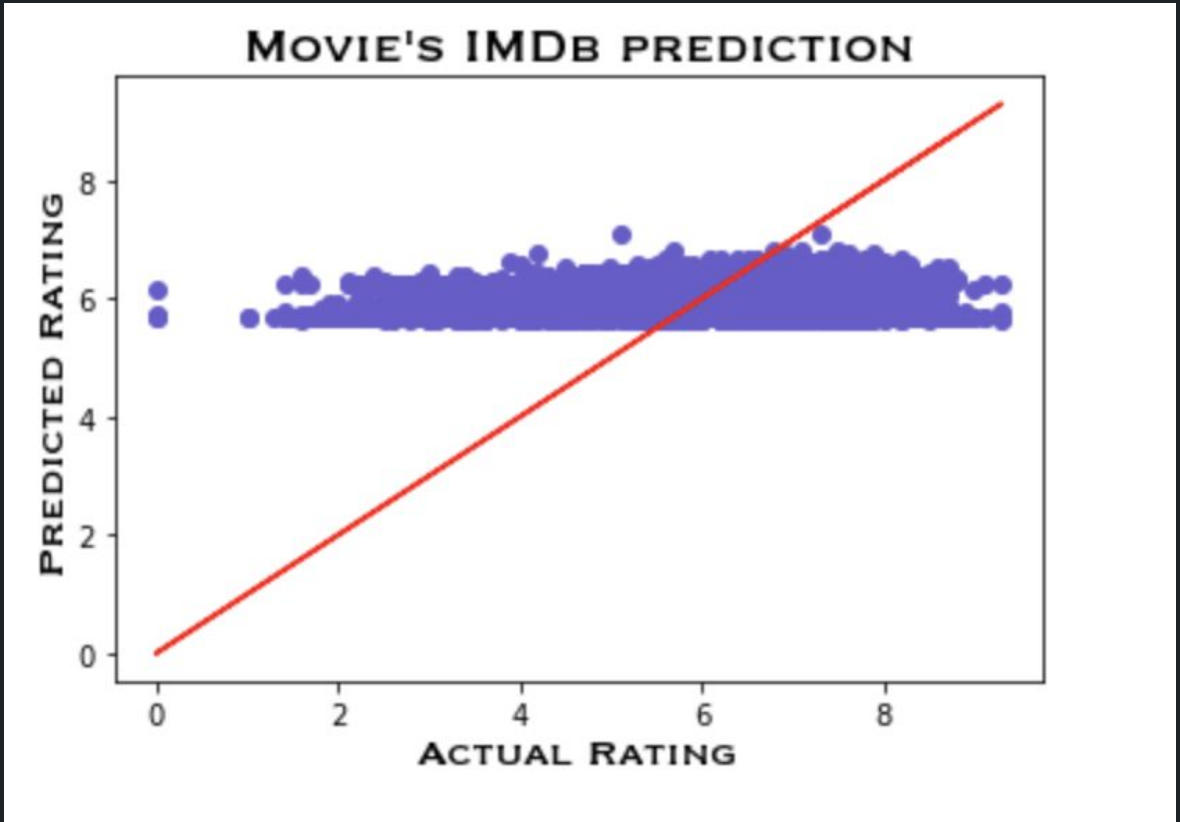
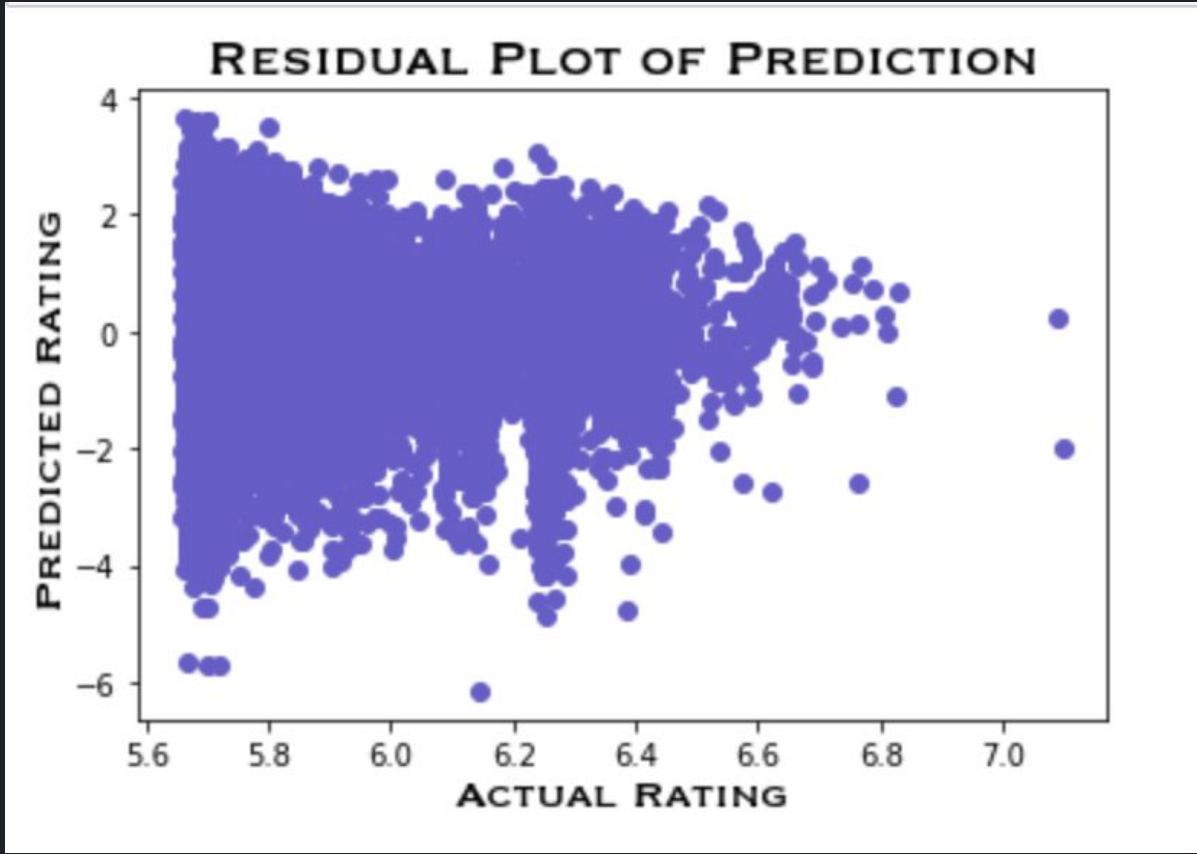


Movies Prediction



Movies Prediction Error



References

- https://www.kaggle.com/ruchi798/movies-and-tv-shows-eda
- “MoviesOnStreamingPlatforms_updated.csv”
- “tv_shows.csv”
- Shout out to Alexander Booth

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