

Data_analysis

August 21, 2023

1 MOVIES DATA ANALYSIS

In this notebook, I have done analysis on IMDB Dataset. I have created this dataset from using 3-4 datasets from IMDB website and joined them using the title id and professional id. This data is dated upto August 2023. I have just done exploratory data analysis on this dataset. The data set contains the following features:-

1.tconst: movie id 2.primaryTitle: movie name 3.isAdult: is movie an adult movie 4.startYear: movie release date 5.runtimeMinutes: movie length in minutes 6.nconst: professional id 7.primaryName: professional's name 8.averageRating: imdb rating of the movie 9.numVotes: number of votes to the movie 10.Actor: is the professional actor 11.Actress: is the professional actress 12.Director: is the professional director 13.Action: is movie an action movie 14.Adult: is movie an adult movie(genre) 15.Adventure: is movie an adventure movie 16.Animation: is movie an animation movie 17.Biography: is movie a biography 18.Comedy: is movie a comedy movie 19.Crime: is movie a crime movie 20.Documentary: is movie a documentary movie 21.Drama: is movie a drama movie 22.Family: is movie a family movie 23.Film-Noir: is movie a film-noir 24.History: is movie a history movie 25.Horror: is movie a horror movie 26.Music: is movie a music movie 27.Musical: is movie a musical movie 28.Mystery: is movie a mystery movie 29.Romance: is movie a romance movie 30.Thriller: is movie a thrill movie 31.War: is movie a war movie 32.Western: is movie a western movie 33.Fantasy: is movie a fantasy movie

The dataset contains all the movies from 1970 above 2 imdb rating with runtime of at least 80 minutes and maximum of 360 minutes. My analysis revolves mostly around the primaryTitle, startYear and various Genres the movie falls in. I have created various bar plots to show various insights which can be derived from the dataset.

1.0.1 INTRODUCTION

1.0.2 FIRST 5 VALUES OF MOVIES DATASET

	tconst	primaryTitle	isAdult	startYear	runtimeMinutes	nconst	\
0	tt0035423	Kate & Leopold	0	2001	118	nm0043662	
1	tt0035423	Kate & Leopold	0	2001	118	nm0118806	
2	tt0035423	Kate & Leopold	0	2001	118	nm0126148	
3	tt0035423	Kate & Leopold	0	2001	118	nm0170765	
4	tt0035423	Kate & Leopold	0	2001	118	nm0179296	

	primaryName	averageRating	numVotes	Actor	...	History	\
0	Charlotte Ayanna	6.4	87317	0	...	0	
1	Vic Bucossi	6.4	87317	1	...	0	
2	Cornelius Patrick Byrne	6.4	87317	1	...	0	
3	Rupert Cole	6.4	87317	1	...	0	
4	Pete Corby	6.4	87317	1	...	0	

	Horror	Music	Musical	Mystery	Romance	Thriller	War	Western	Fantasy
0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	1	0	0	0	1
2	0	0	0	0	1	0	0	0	1
3	0	0	0	0	1	0	0	0	1
4	0	0	0	0	1	0	0	0	1

[5 rows x 33 columns]

1.0.3 INFORMATION ABOUT THE MOVIE DATASET

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1114673 entries, 0 to 1114672
Data columns (total 33 columns):
#   Column                Non-Null Count  Dtype
---  -
0   tconst                1114673 non-null object
1   primaryTitle          1114673 non-null object
2   isAdult               1114673 non-null int64
3   startYear             1114673 non-null int64
4   runtimeMinutes        1114673 non-null int64
5   nconst                1114673 non-null object
6   primaryName           1114673 non-null object
7   averageRating         1114673 non-null float64
8   numVotes              1114673 non-null int64
9   Actor                 1114673 non-null int64
10  Actress               1114673 non-null int64
11  Director              1114673 non-null int64
12  Action                1114673 non-null int64
13  Adult                 1114673 non-null int64
14  Adventure              1114673 non-null int64
```

```

15 Animation      1114673 non-null  int64
16 Biography      1114673 non-null  int64
17 Comedy         1114673 non-null  int64
18 Crime          1114673 non-null  int64
19 Documentary     1114673 non-null  int64
20 Drama          1114673 non-null  int64
21 Family         1114673 non-null  int64
22 Film-Noir      1114673 non-null  int64
23 History         1114673 non-null  int64
24 Horror         1114673 non-null  int64
25 Music          1114673 non-null  int64
26 Musical        1114673 non-null  int64
27 Mystery        1114673 non-null  int64
28 Romance        1114673 non-null  int64
29 Thriller       1114673 non-null  int64
30 War            1114673 non-null  int64
31 Western        1114673 non-null  int64
32 Fantasy        1114673 non-null  int64
dtypes: float64(1), int64(28), object(4)
memory usage: 280.6+ MB

```

1.0.4 DESCRIPTION OF THE MOVIE DATASET

	isAdult	startYear	runtimeMinutes	averageRating	\
count	1.114673e+06	1.114673e+06	1.114673e+06	1.114673e+06	
mean	1.596881e-04	2.007518e+03	1.114368e+02	6.337648e+00	
std	1.263577e-02	1.191405e+01	2.198938e+01	1.113413e+00	
min	0.000000e+00	1.971000e+03	8.100000e+01	2.100000e+00	
25%	0.000000e+00	2.001000e+03	9.600000e+01	5.700000e+00	
50%	0.000000e+00	2.011000e+03	1.060000e+02	6.500000e+00	
75%	0.000000e+00	2.017000e+03	1.220000e+02	7.100000e+00	
max	1.000000e+00	2.023000e+03	3.570000e+02	9.600000e+00	

	numVotes	Actor	Actress	Director	Action	\
count	1.114673e+06	1.114673e+06	1.114673e+06	1.114673e+06	1.114673e+06	
mean	8.885007e+04	5.393322e-01	2.646624e-01	2.603382e-01	3.083227e-01	
std	2.030262e+05	4.984508e-01	4.411535e-01	4.388193e-01	4.618008e-01	
min	1.001000e+03	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
25%	2.800000e+03	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
50%	1.314000e+04	1.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
75%	7.492600e+04	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	
max	2.785117e+06	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	

	Adult	...	History	Horror	Music	\
count	1.114673e+06	...	1.114673e+06	1.114673e+06	1.114673e+06	
mean	1.578938e-04	...	3.881228e-02	1.083502e-01	4.606822e-02	
std	1.256460e-02	...	1.931474e-01	3.108223e-01	2.096330e-01	

min	0.000000e+00	...	0.000000e+00	0.000000e+00	0.000000e+00
25%	0.000000e+00	...	0.000000e+00	0.000000e+00	0.000000e+00
50%	0.000000e+00	...	0.000000e+00	0.000000e+00	0.000000e+00
75%	0.000000e+00	...	0.000000e+00	0.000000e+00	0.000000e+00
max	1.000000e+00	...	1.000000e+00	1.000000e+00	1.000000e+00

	Musical	Mystery	Romance	Thriller	War \
count	1.114673e+06	1.114673e+06	1.114673e+06	1.114673e+06	1.114673e+06
mean	1.484561e-02	8.491549e-02	1.584061e-01	1.644716e-01	1.987489e-02
std	1.209348e-01	2.787560e-01	3.651215e-01	3.707031e-01	1.395704e-01
min	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
25%	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
50%	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
75%	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
max	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00	1.000000e+00

	Western	Fantasy
count	1.114673e+06	1.114673e+06
mean	4.471266e-03	6.774902e-02
std	6.671790e-02	2.513148e-01
min	0.000000e+00	0.000000e+00
25%	0.000000e+00	0.000000e+00
50%	0.000000e+00	0.000000e+00
75%	0.000000e+00	0.000000e+00
max	1.000000e+00	1.000000e+00

[8 rows x 29 columns]

1.0.5 GROUPING THE DATASET BASED ON MOVIE TITLES AND SHOWING FIRST 10 VALUES

	isAdult	startYear	runtimeMinutes \
primaryTitle			
#Alive	0.0	2020.0	98.0
#Anne Frank Parallel Stories	0.0	2019.0	92.0
#Captured	0.0	2017.0	81.0
#Home	0.0	2021.0	158.0
#Horror	0.0	2015.0	97.0
#Iamhere	0.0	2019.0	97.0
#Kaadal Kahaani	0.0	2022.0	93.0
#Realityhigh	0.0	2017.0	99.0
#Screamers	0.0	2016.0	85.0
#Stuck	0.0	2014.0	82.0

	averageRating	numVotes	Actor	Actress \
primaryTitle				
#Alive	6.3	44722.0	0.514286	0.400000

#Anne Frank Parallel Stories	6.6	1720.0	0.000000	0.000000
#Captured	3.1	1186.0	0.500000	0.416667
#Home	8.8	14273.0	0.711111	0.200000
#Horror	3.0	3857.0	0.136364	0.545455
#Iamhere	6.0	1243.0	0.833333	0.166667
#Kaadal Kahaani	8.0	2045.0	0.555556	0.333333
#Realityhigh	5.2	6724.0	0.366667	0.500000
#Screamers	4.3	1199.0	0.500000	0.285714
#Stuck	5.6	1225.0	0.352941	0.588235

	Director	Action	Adult	...	History	Horror	\
primaryTitle				...			
#Alive	0.171429	1.0	0.0	...	0.0	1.0	
#Anne Frank Parallel Stories	1.000000	0.0	0.0	...	1.0	0.0	
#Captured	0.166667	0.0	0.0	...	0.0	1.0	
#Home	0.177778	0.0	0.0	...	0.0	0.0	
#Horror	0.454545	0.0	0.0	...	0.0	1.0	
#Iamhere	0.000000	0.0	0.0	...	0.0	0.0	
#Kaadal Kahaani	0.111111	0.0	0.0	...	0.0	0.0	
#Realityhigh	0.133333	0.0	0.0	...	0.0	0.0	
#Screamers	0.285714	0.0	0.0	...	0.0	1.0	
#Stuck	0.117647	0.0	0.0	...	0.0	0.0	

	Music	Musical	Mystery	Romance	Thriller	War	\
primaryTitle							
#Alive	0.0	0.0	0.0	0.0	0.0	0.0	
#Anne Frank Parallel Stories	0.0	0.0	0.0	0.0	0.0	0.0	
#Captured	0.0	0.0	0.0	0.0	1.0	0.0	
#Home	0.0	0.0	0.0	0.0	0.0	0.0	
#Horror	0.0	0.0	0.0	0.0	0.0	0.0	
#Iamhere	0.0	0.0	0.0	0.0	0.0	0.0	
#Kaadal Kahaani	0.0	0.0	0.0	0.0	0.0	0.0	
#Realityhigh	0.0	0.0	0.0	1.0	0.0	0.0	
#Screamers	0.0	0.0	1.0	0.0	0.0	0.0	
#Stuck	0.0	0.0	0.0	1.0	0.0	0.0	

	Western	Fantasy
primaryTitle		
#Alive	0.0	0.0
#Anne Frank Parallel Stories	0.0	0.0
#Captured	0.0	0.0
#Home	0.0	0.0
#Horror	0.0	0.0
#Iamhere	0.0	0.0
#Kaadal Kahaani	0.0	0.0
#Realityhigh	0.0	0.0
#Screamers	0.0	0.0

```
#Stuck                                0.0      0.0
```

```
[10 rows x 29 columns]
```

1.0.6 GETTING MOVIE TITLE INTO THE DATASET

```

           primaryTitle  isAdult  startYear  runtimeMinutes  \
0                #Alive      0.0    2020.0             98.0
1  #Anne Frank Parallel Stories      0.0    2019.0             92.0
2                #Captured      0.0    2017.0             81.0
3                #Home      0.0    2021.0            158.0
4                #Horror      0.0    2015.0             97.0
5                #Iamhere      0.0    2019.0             97.0
6          #Kaadal Kahaani      0.0    2022.0             93.0
7          #Realityhigh      0.0    2017.0             99.0
8          #Screamers      0.0    2016.0             85.0
9                #Stuck      0.0    2014.0             82.0

```

```

averageRating  numVotes    Actor    Actress  Director  Action  ...  \
0           6.3    44722.0  0.514286  0.400000  0.171429    1.0  ...
1           6.6     1720.0  0.000000  0.000000  1.000000    0.0  ...
2           3.1     1186.0  0.500000  0.416667  0.166667    0.0  ...
3           8.8    14273.0  0.711111  0.200000  0.177778    0.0  ...
4           3.0     3857.0  0.136364  0.545455  0.454545    0.0  ...
5           6.0     1243.0  0.833333  0.166667  0.000000    0.0  ...
6           8.0     2045.0  0.555556  0.333333  0.111111    0.0  ...
7           5.2     6724.0  0.366667  0.500000  0.133333    0.0  ...
8           4.3     1199.0  0.500000  0.285714  0.285714    0.0  ...
9           5.6     1225.0  0.352941  0.588235  0.117647    0.0  ...

```

```

History  Horror  Music  Musical  Mystery  Romance  Thriller  War  Western  \
0      0.0     1.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
1      1.0     0.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
2      0.0     1.0   0.0     0.0     0.0     0.0     1.0  0.0     0.0
3      0.0     0.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
4      0.0     1.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
5      0.0     0.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
6      0.0     0.0   0.0     0.0     0.0     0.0     0.0  0.0     0.0
7      0.0     0.0   0.0     0.0     0.0     1.0     0.0  0.0     0.0
8      0.0     1.0   0.0     0.0     1.0     0.0     0.0  0.0     0.0
9      0.0     0.0   0.0     0.0     0.0     1.0     0.0  0.0     0.0

```

```

Fantasy
0      0.0
1      0.0
2      0.0
3      0.0

```

4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0

[10 rows x 30 columns]

1.0.7 SHOWING THE 10 HIGHEST RATED MOVIES IN THE DATASET

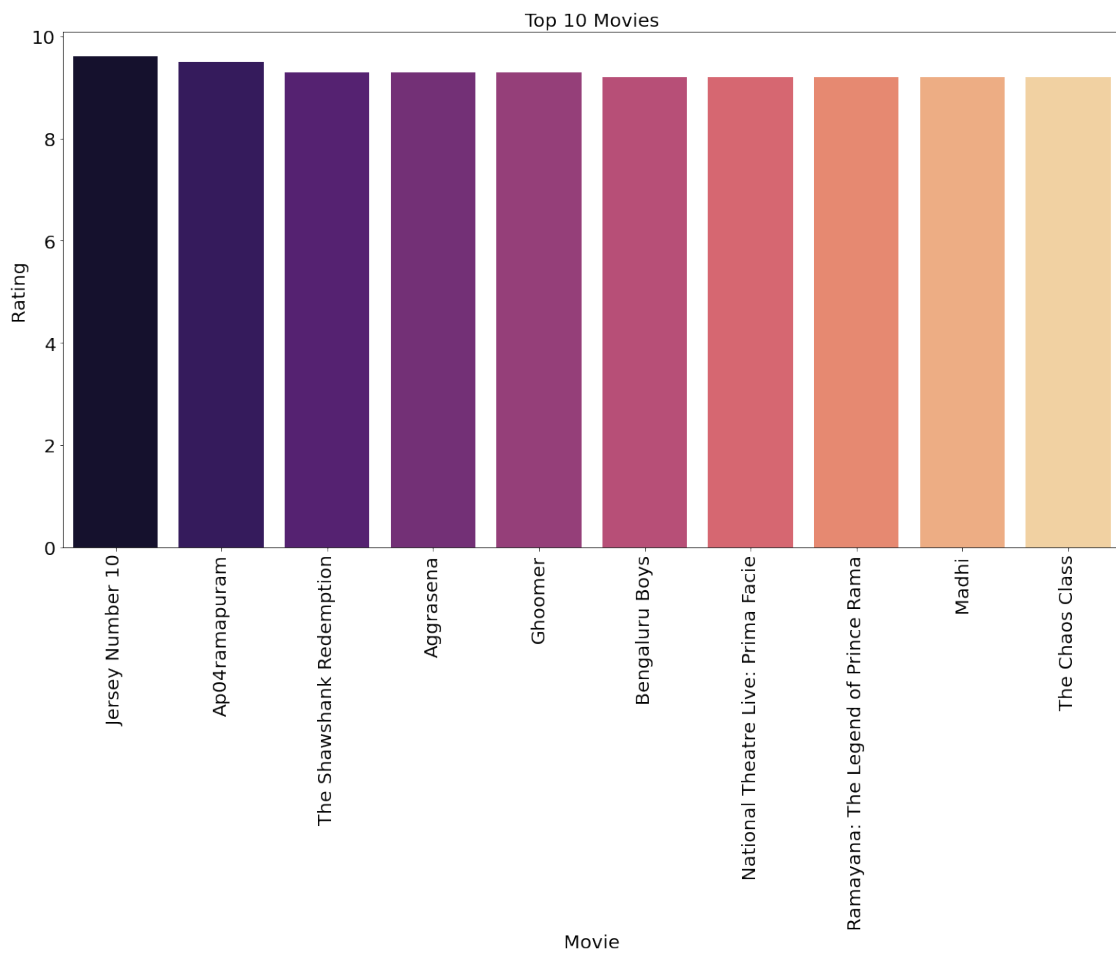
	primaryTitle	isAdult	startYear	\
12485	Jersey Number 10	0.0	2023.0	
2223	Ap04ramapuram	0.0	2022.0	
27325	The Shawshank Redemption	0.0	1994.0	
1384	Aggrasena	0.0	2023.0	
9580	Ghoomer	0.0	2023.0	
3328	Bengaluru Boys	0.0	2023.0	
16769	National Theatre Live: Prima Facie	0.0	2022.0	
19372	Ramayana: The Legend of Prince Rama	0.0	1993.0	
14839	Madhi	0.0	2022.0	
24008	The Chaos Class	0.0	1975.0	

	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
12485	142.0	9.6	1552.0	0.666667	0.266667	0.200000	
2223	144.0	9.5	2133.0	0.375000	0.250000	0.375000	
27325	142.0	9.3	2785117.0	0.753425	0.109589	0.246575	
1384	121.0	9.3	1030.0	0.428571	0.428571	0.142857	
9580	135.0	9.3	1059.0	0.529412	0.205882	0.382353	
3328	142.0	9.2	1048.0	0.571429	0.285714	0.142857	
16769	120.0	9.2	1367.0	0.000000	0.333333	0.666667	
19372	135.0	9.2	12604.0	0.478261	0.304348	0.347826	
14839	139.0	9.2	2157.0	0.500000	0.333333	0.166667	
24008	87.0	9.2	42052.0	0.888889	0.000000	0.222222	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
12485	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
2223	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
27325	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1384	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
9580	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
3328	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
16769	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
19372	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
14839	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
24008	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
12485	0.0	0.0	0.0	0.0
2223	1.0	0.0	0.0	0.0
27325	0.0	0.0	0.0	0.0
1384	0.0	0.0	0.0	0.0
9580	0.0	0.0	0.0	0.0
3328	0.0	0.0	0.0	0.0
16769	0.0	0.0	0.0	0.0
19372	0.0	0.0	0.0	0.0
14839	0.0	0.0	0.0	0.0
24008	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



1.0.8 SHOWING THE 10 HIGHEST RATED ACTION MOVIES

	primaryTitle	isAdult	startYear	\
19372	Ramayana: The Legend of Prince Rama	0.0	1993.0	
26038	The Lord of the Rings: The Return of the King	0.0	2003.0	
24305	The Dark Knight	0.0	2008.0	
17522	Om	0.0	1995.0	
6749	Demon Slayer: Kimetsu no Yaiba - Tsuzumi Mansi...	0.0	2021.0	
20472	Sarsenapati Hambirrao	0.0	2022.0	
11906	Inception	0.0	2010.0	
26039	The Lord of the Rings: The Two Towers	0.0	2002.0	
13129	Kill Bill: The Whole Bloody Affair	0.0	2006.0	
21965	Spider-Man: Across the Spider-Verse	0.0	2023.0	

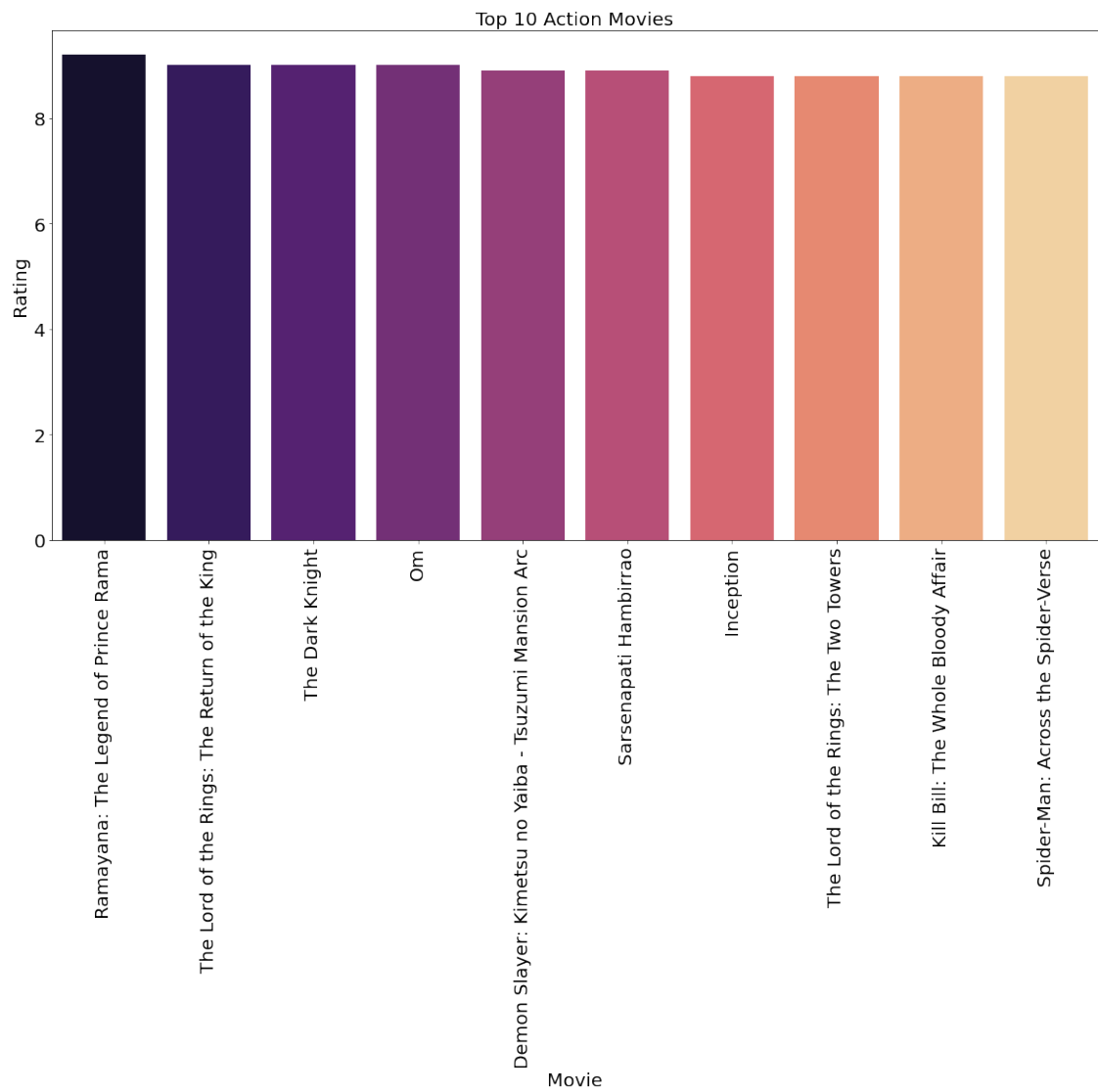
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
19372	135.0	9.2	12604.0	0.478261	0.304348	0.347826	
26038	201.0	9.0	1908494.0	0.572581	0.120968	0.383065	
24305	152.0	9.0	2764052.0	0.717073	0.121951	0.307317	
17522	150.0	9.0	3732.0	0.608696	0.173913	0.260870	
6749	87.0	8.9	20653.0	0.000000	0.000000	1.000000	
20472	158.0	8.9	2794.0	0.480000	0.160000	0.480000	
11906	148.0	8.8	2454098.0	0.468672	0.147870	0.471178	
26039	179.0	8.8	1722204.0	0.574163	0.162679	0.354067	
13129	247.0	8.8	14673.0	0.321429	0.607143	0.107143	
21965	140.0	8.8	225544.0	0.336634	0.247525	0.544554	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
19372	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26038	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
24305	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
17522	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
6749	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
20472	1.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
11906	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26039	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
13129	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
21965	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
19372	0.0	0.0	0.0	0.0
26038	0.0	0.0	0.0	0.0
24305	0.0	0.0	0.0	0.0
17522	0.0	0.0	0.0	0.0
6749	0.0	0.0	0.0	1.0
20472	0.0	0.0	0.0	0.0
11906	0.0	0.0	0.0	0.0
26039	0.0	0.0	0.0	0.0

```
13129      1.0  0.0      0.0      0.0
21965      0.0  0.0      0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF ACTION MOVIES IN A DATASET

```
Genre  Rating
0  Action  5.95528
```

1.0.9 SHOWING 10 HIGHEST RATED ADULT FILMS

	primaryTitle	isAdult	startYear	\
22840	Taboo II	1.0	1982.0	
26585	The Opening of Misty Beethoven	1.0	1976.0	
17352	Nymphomaniac: Vol. II	0.0	2013.0	
1527	Alice in Wonderland: An X-Rated Musical Fantasy	1.0	1976.0	
25454	The Image	1.0	1975.0	
20640	Score	1.0	1973.0	
7899	Emanuelle in America	1.0	1977.0	
27376	The Sinful Dwarf	1.0	1973.0	
7897	Emanuelle Around the World	1.0	1977.0	
4681	Caligula: The Untold Story	1.0	1982.0	

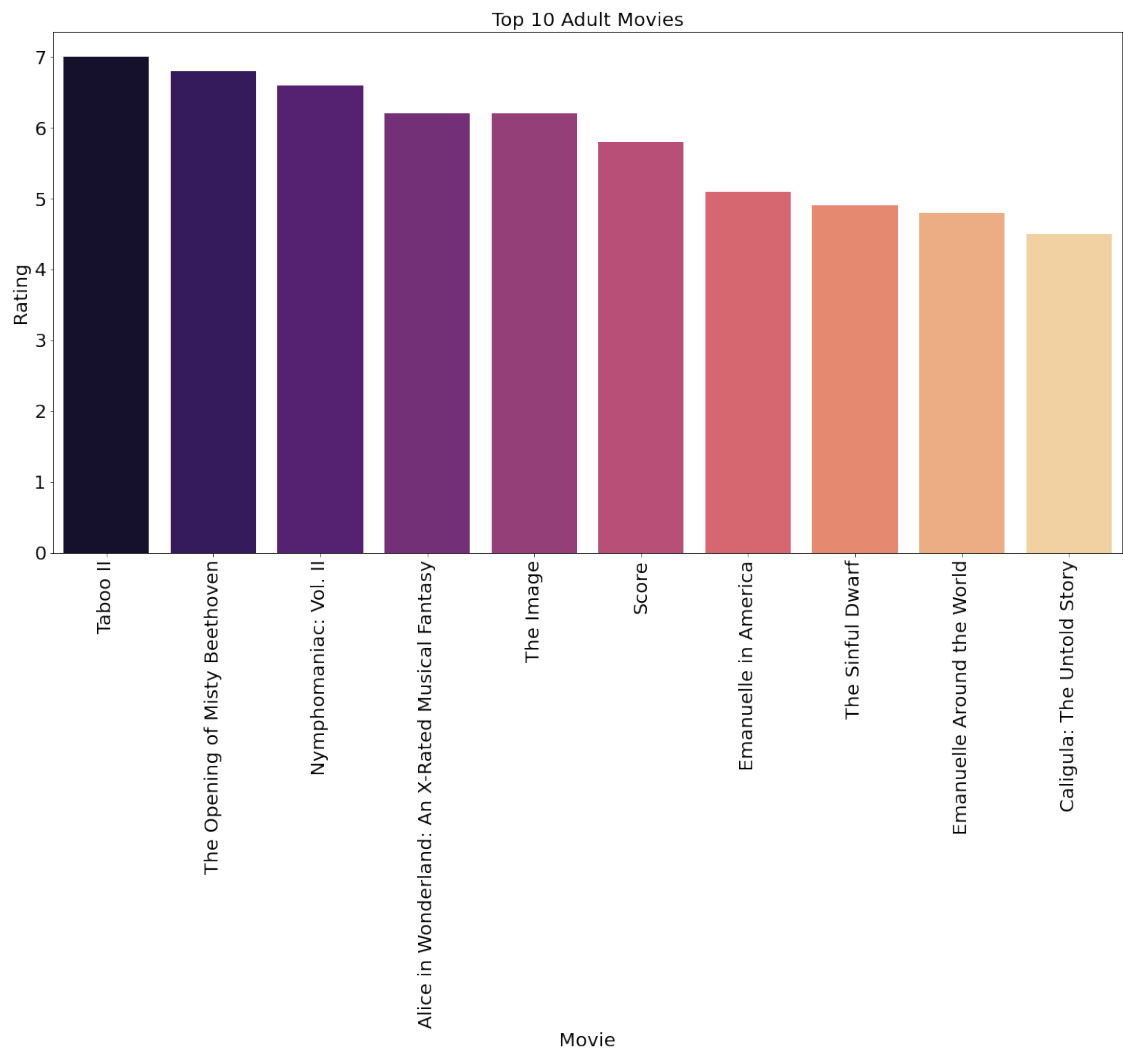
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
22840	97.0	7.0	1306.0	0.250000	0.750000	0.000000	
26585	85.0	6.8	1368.0	0.250000	0.500000	0.375000	
17352	124.0	6.6	95877.0	0.395349	0.395349	0.209302	
1527	88.0	6.2	3098.0	0.391304	0.478261	0.173913	
25454	91.0	6.2	1866.0	0.250000	0.625000	0.125000	
20640	90.0	5.8	1281.0	0.750000	0.250000	0.000000	
7899	100.0	5.1	1887.0	0.555556	0.444444	0.000000	
27376	95.0	4.9	1612.0	0.588235	0.294118	0.117647	
7897	97.0	4.8	1037.0	0.440000	0.480000	0.080000	
4681	130.0	4.5	1100.0	0.285714	0.571429	0.214286	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
22840	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26585	0.0	...	0.0	0.0	0.0	0.0	0.0	1.0	
17352	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1527	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
25454	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
20640	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7899	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
27376	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
7897	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
4681	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
22840	0.0	0.0	0.0	0.0
26585	0.0	0.0	0.0	0.0
17352	0.0	0.0	0.0	0.0
1527	0.0	0.0	0.0	1.0
25454	0.0	0.0	0.0	0.0
20640	0.0	0.0	0.0	0.0
7899	0.0	0.0	0.0	0.0
27376	0.0	0.0	0.0	0.0

```
7897      0.0  0.0      0.0      0.0
4681      0.0  0.0      0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF ADULT MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333

1.0.10 SHOWING 10 HIGHEST RATED ADVENTURE FILMS

	primaryTitle	isAdult	startYear	\
19372	Ramayana: The Legend of Prince Rama	0.0	1993.0	
6211	Daman	0.0	2022.0	
26038	The Lord of the Rings: The Return of the King	0.0	2003.0	
7057	Dipu Number 2	0.0	1996.0	
9407	Gandhada Gudi	0.0	2022.0	
26037	The Lord of the Rings: The Fellowship of the Ring	0.0	2001.0	
21965	Spider-Man: Across the Spider-Verse	0.0	2023.0	
11906	Inception	0.0	2010.0	
442	777 Charlie	0.0	2022.0	
26039	The Lord of the Rings: The Two Towers	0.0	2002.0	

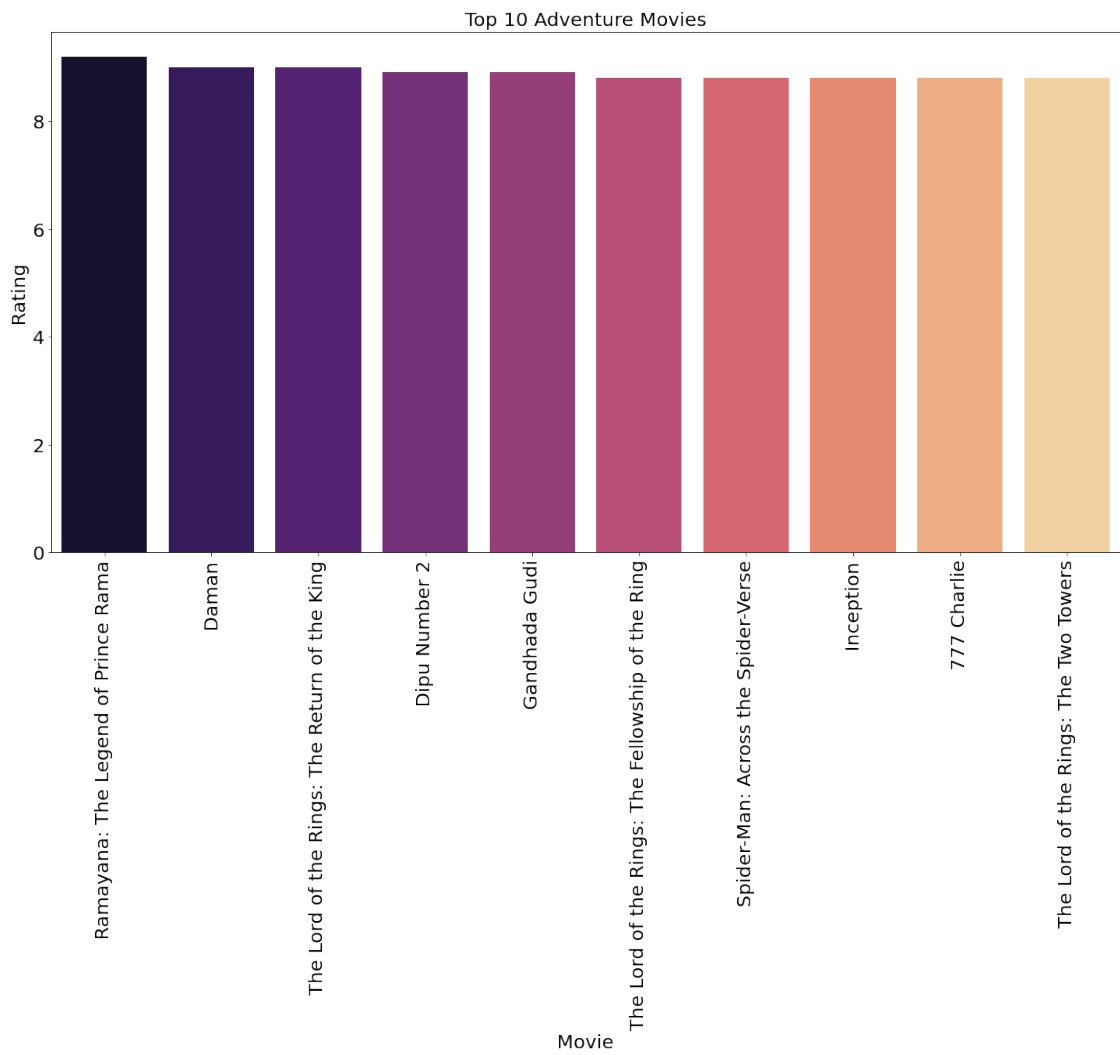
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
19372	135.0	9.2	12604.0	0.478261	0.304348	0.347826	
6211	121.0	9.0	13377.0	0.652174	0.217391	0.217391	
26038	201.0	9.0	1908494.0	0.572581	0.120968	0.383065	
7057	154.0	8.9	2506.0	1.000000	0.000000	0.000000	
9407	99.0	8.9	2836.0	0.666667	0.000000	0.333333	
26037	178.0	8.8	1936680.0	0.531773	0.140468	0.414716	
21965	140.0	8.8	225544.0	0.336634	0.247525	0.544554	
11906	148.0	8.8	2454098.0	0.468672	0.147870	0.471178	
442	164.0	8.8	36081.0	0.526316	0.245614	0.298246	
26039	179.0	8.8	1722204.0	0.574163	0.162679	0.354067	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
19372	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
6211	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26038	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7057	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
9407	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26037	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
21965	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
11906	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
442	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
26039	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
19372	0.0	0.0	0.0	0.0
6211	0.0	0.0	0.0	0.0
26038	0.0	0.0	0.0	0.0
7057	0.0	0.0	0.0	0.0
9407	0.0	0.0	0.0	0.0
26037	0.0	0.0	0.0	0.0
21965	0.0	0.0	0.0	0.0
11906	0.0	0.0	0.0	0.0

```
442          0.0  0.0      0.0      0.0
26039        0.0  0.0      0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF ADVENTURE MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639

1.0.11 SHOWING 10 HIGHEST RATED ANIMATION FILMS

	primaryTitle	isAdult	startYear	\
19372	Ramayana: The Legend of Prince Rama	0.0	1993.0	
6749	Demon Slayer: Kimetsu no Yaiba - Tsuzumi Mansi...	0.0	2021.0	
21965	Spider-Man: Across the Spider-Verse	0.0	2023.0	
21989	Spirited Away	0.0	2001.0	
10033	Grave of the Fireflies	0.0	1988.0	
313	30 Years and 15 Minutes	0.0	2020.0	
9652	Gintama: The Final	0.0	2021.0	
2570	Attack on Titan: The Roar of Awakening	0.0	2018.0	
2568	Attack on Titan: Chronicle	0.0	2020.0	
21968	Spider-Man: Into the Spider-Verse	0.0	2018.0	

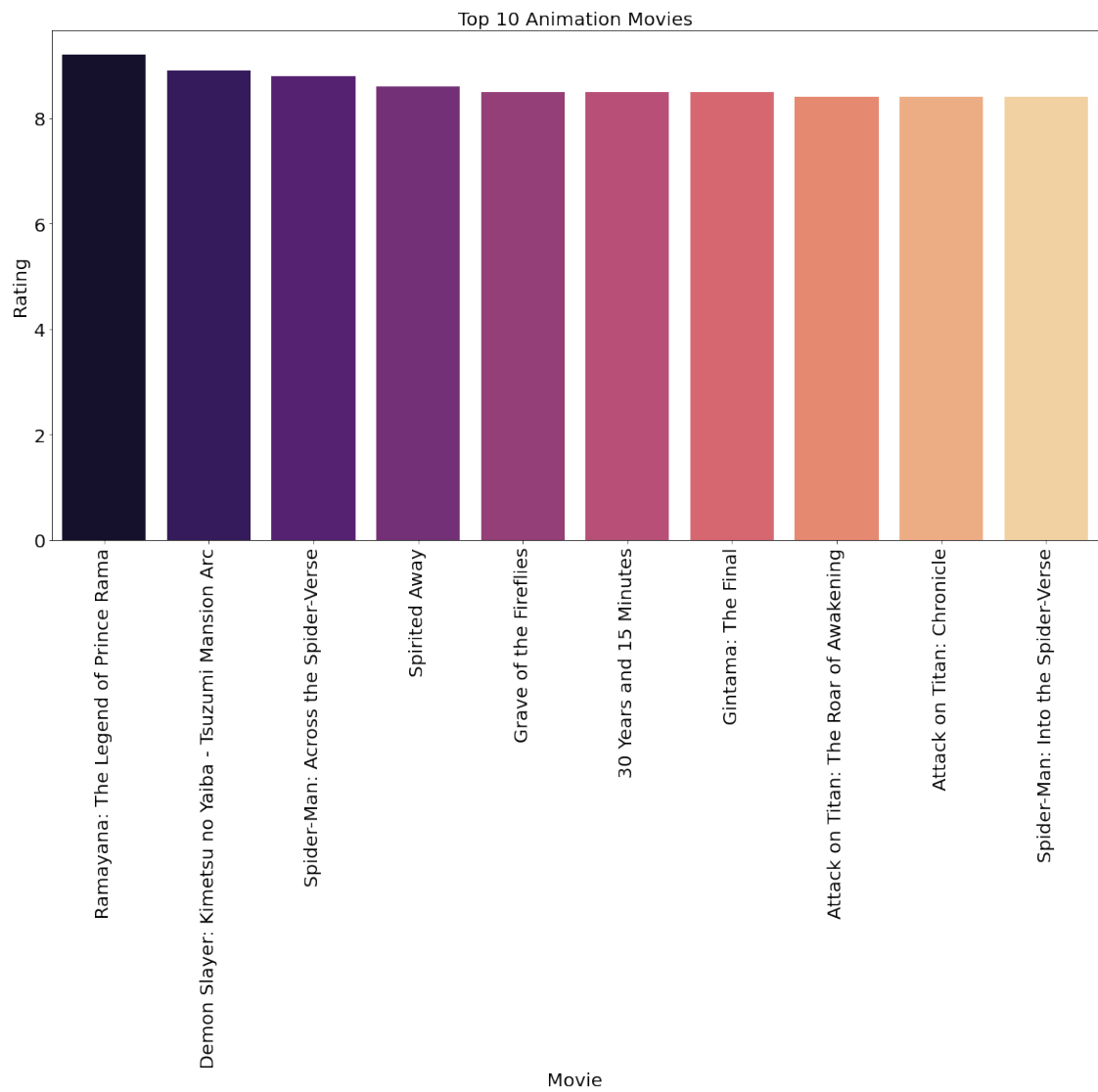
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
19372	135.0	9.2	12604.0	0.478261	0.304348	0.347826	
6749	87.0	8.9	20653.0	0.000000	0.000000	1.000000	
21965	140.0	8.8	225544.0	0.336634	0.247525	0.544554	
21989	125.0	8.6	804324.0	0.316327	0.387755	0.336735	
10033	89.0	8.5	293179.0	0.528090	0.247191	0.224719	
313	95.0	8.5	2682.0	0.666667	0.000000	0.333333	
9652	104.0	8.5	2693.0	0.250000	0.071429	0.714286	
2570	120.0	8.4	5774.0	1.000000	0.000000	0.000000	
2568	122.0	8.4	11187.0	0.600000	0.000000	0.400000	
21968	117.0	8.4	621039.0	0.500000	0.126437	0.442529	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
19372	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
6749	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
21965	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
21989	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
10033	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
313	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
9652	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
2570	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
2568	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
21968	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
19372	0.0	0.0	0.0	0.0
6749	0.0	0.0	0.0	1.0
21965	0.0	0.0	0.0	0.0
21989	0.0	0.0	0.0	0.0
10033	0.0	1.0	0.0	0.0
313	0.0	0.0	0.0	0.0
9652	0.0	0.0	0.0	0.0
2570	0.0	0.0	0.0	1.0

```
2568      0.0  0.0      0.0      0.0
21968     0.0  0.0      0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF ANIMATION MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026

1.0.12 SHOWING 10 HIGHEST RATED BIOGRAPHY FILMS

	primaryTitle	isAdult	startYear	\
20607	Schindler's List	0.0	1993.0	
7392	Dr. Babasaheb Ambedkar	0.0	2000.0	
6386	David Attenborough: A Life on Our Planet	0.0	2020.0	
9954	Goodfellas	0.0	1990.0	
30452	While We Watched	0.0	2022.0	
19971	Rocketry: The Nambi Effect	0.0	2022.0	
28758	Toma	0.0	2021.0	
19122	Puskás Hungary	0.0	2009.0	
10738	Hemalkasa	0.0	2014.0	
17790	Oppenheimer	0.0	2023.0	

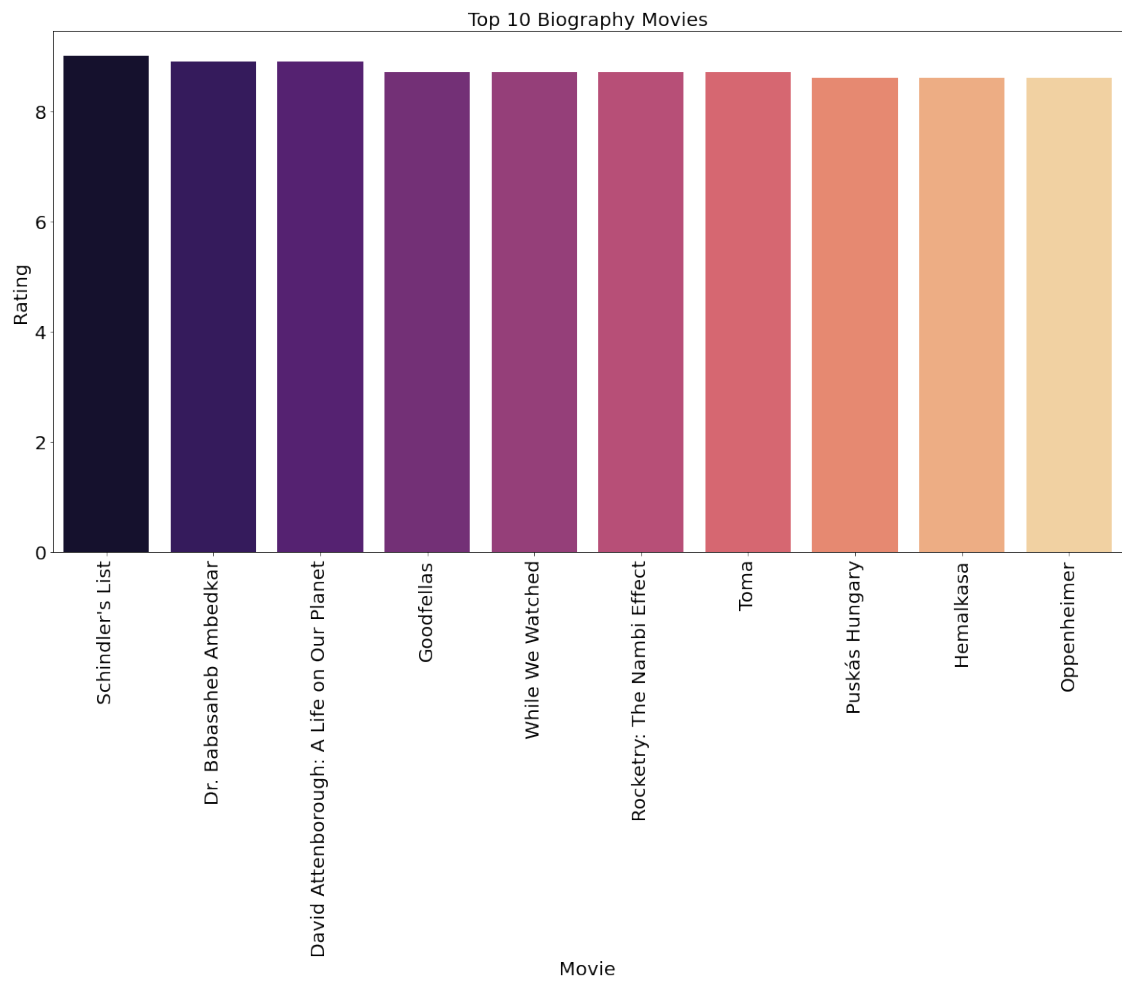
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
20607	195.0	9.0	1401229.0	0.641509	0.213836	0.308176	
7392	197.0	8.9	2628.0	0.500000	0.250000	0.250000	
6386	83.0	8.9	33521.0	0.454545	0.090909	0.454545	
9954	145.0	8.7	1208386.0	0.690789	0.263158	0.157895	
30452	94.0	8.7	1096.0	0.250000	0.000000	0.750000	
19971	157.0	8.7	54715.0	0.575472	0.132075	0.424528	
28758	140.0	8.7	11591.0	0.543860	0.280702	0.175439	
19122	116.0	8.6	1021.0	0.600000	0.000000	0.400000	
10738	119.0	8.6	1264.0	0.600000	0.200000	0.400000	
17790	180.0	8.6	354907.0	0.522124	0.238938	0.415929	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
20607	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
7392	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
6386	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
9954	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
30452	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
19971	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
28758	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	
19122	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
10738	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
17790	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
20607	0.0	0.0	0.0	0.0
7392	0.0	0.0	0.0	0.0
6386	0.0	0.0	0.0	0.0
9954	0.0	0.0	0.0	0.0
30452	0.0	0.0	0.0	0.0
19971	0.0	0.0	0.0	0.0
28758	0.0	0.0	0.0	0.0
19122	0.0	0.0	0.0	0.0

```
10738      0.0  0.0      0.0      0.0
17790      0.0  0.0      0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF BIOGRAPHY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374

1.0.13 SHOWING 10 HIGHEST RATED COMEDY FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\
24008	The Chaos Class	0.0	1975.0	87.0	
2438	Ashi Hi Banwa Banwi	0.0	1988.0	137.0	
24976	The Gilbert Diaries: The Movie	0.0	2023.0	97.0	
20422	Sandesham	0.0	1991.0	138.0	
28838	Tosun Pasa	0.0	1976.0	90.0	
24010	The Chaos Class Failed the Class	0.0	1975.0	91.0	
17742	Opasen char	0.0	1984.0	90.0	
12858	Kadaisi Vivasayi	0.0	2021.0	122.0	
2891	Balkan Spy	0.0	1984.0	95.0	
28089	The Weight of Chains 2	0.0	2014.0	124.0	

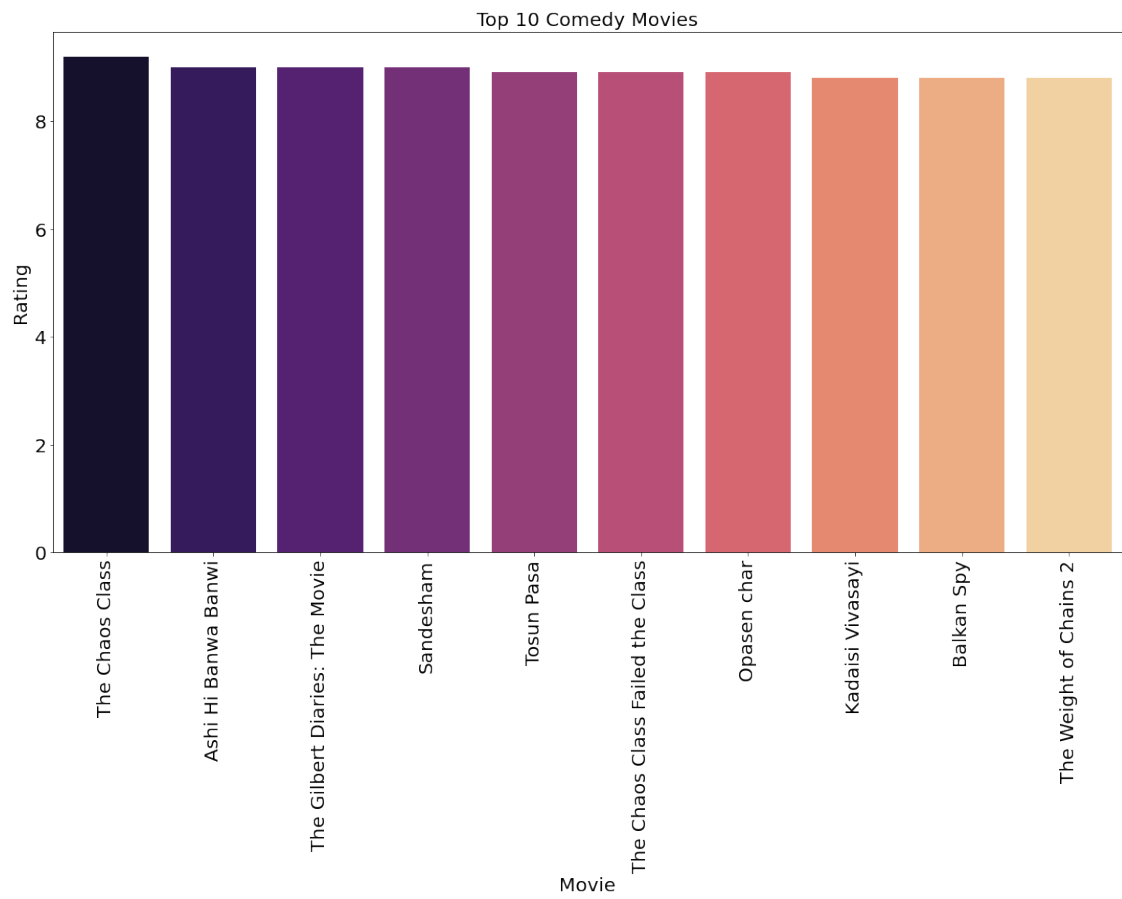
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
24008	9.2	42052.0	0.888889	0.000000	0.222222	0.0	...	
2438	9.0	1860.0	0.250000	0.250000	0.500000	0.0	...	
24976	9.0	1190.0	0.688889	0.266667	0.088889	0.0	...	
20422	9.0	4834.0	0.750000	0.250000	0.250000	0.0	...	
28838	8.9	24078.0	0.545455	0.454545	0.181818	0.0	...	
24010	8.9	24116.0	0.777778	0.166667	0.166667	0.0	...	
17742	8.9	1876.0	0.548387	0.387097	0.096774	0.0	...	
12858	8.8	4408.0	0.333333	0.333333	0.333333	0.0	...	
2891	8.8	12040.0	0.705882	0.235294	0.176471	0.0	...	
28089	8.8	1416.0	0.333333	0.000000	0.666667	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
24008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2438	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20422	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28838	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17742	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
12858	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28089	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Western	Fantasy
24008	0.0	0.0
2438	0.0	0.0
24976	0.0	0.0
20422	0.0	0.0
28838	0.0	0.0
24010	0.0	0.0
17742	0.0	0.0
12858	0.0	0.0

```
2891      0.0      0.0
28089     0.0      0.0
```

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF COMEDY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568

1.0.14 SHOWING 10 HIGHEST RATED CRIME FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\
25026	The Godfather	0.0	1972.0	175.0	
25027	The Godfather Part II	0.0	1974.0	202.0	
15773	Mirror Game	0.0	2016.0	147.0	
24305	The Dark Knight	0.0	2008.0	152.0	
17522	Om	0.0	1995.0	150.0	
19068	Pulp Fiction	0.0	1994.0	154.0	
13129	Kill Bill: The Whole Bloody Affair	0.0	2006.0	247.0	
10760	Her Chapter 1	0.0	2023.0	103.0	
12360	Jai Bhim	0.0	2021.0	164.0	
15978	Monpura	0.0	2009.0	136.0	

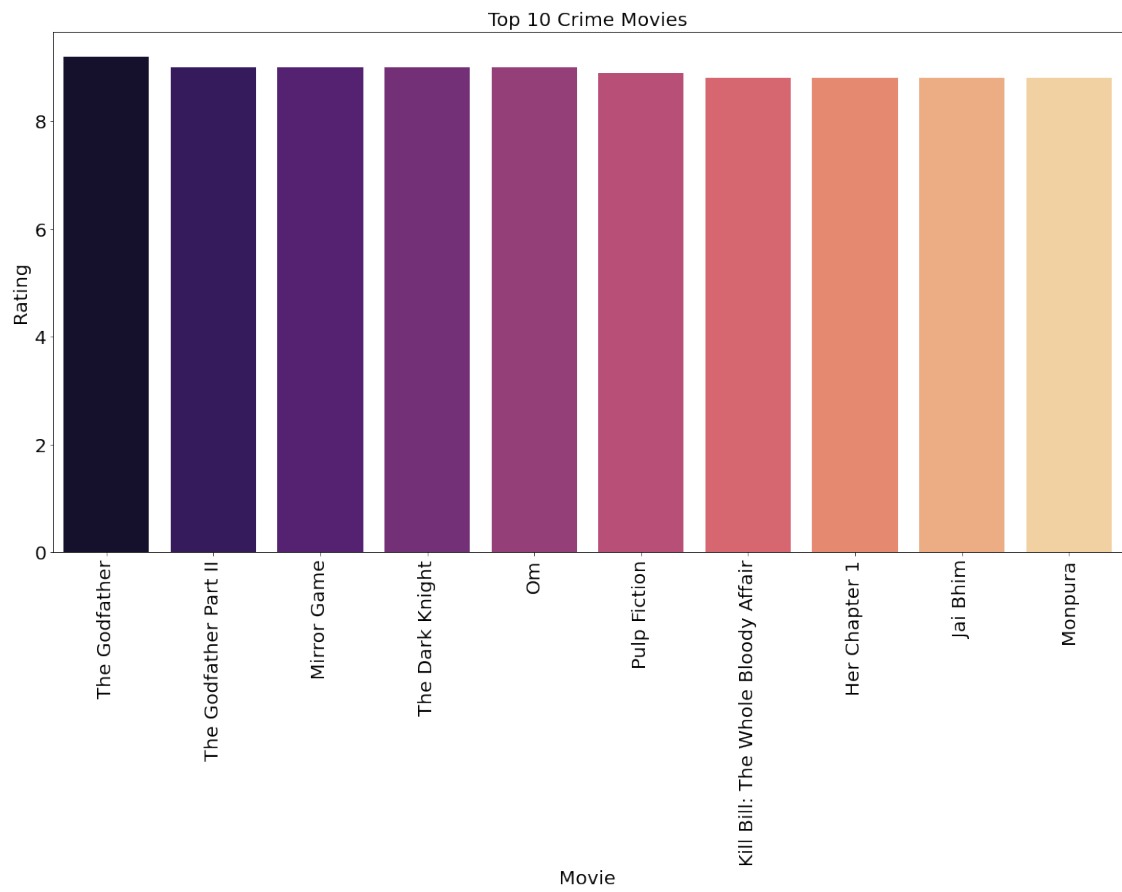
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
25026	9.2	1939355.0	0.725490	0.156863	0.254902	0.0	...	
25027	9.0	1317944.0	0.674699	0.216867	0.240964	0.0	...	
15773	9.0	28916.0	0.823529	0.088235	0.235294	0.0	...	
24305	9.0	2764052.0	0.717073	0.121951	0.307317	1.0	...	
17522	9.0	3732.0	0.608696	0.173913	0.260870	1.0	...	
19068	8.9	2136763.0	0.606383	0.212766	0.308511	0.0	...	
13129	8.8	14673.0	0.321429	0.607143	0.107143	1.0	...	
10760	8.8	1515.0	0.312500	0.125000	0.562500	0.0	...	
12360	8.8	209197.0	0.740458	0.213740	0.068702	0.0	...	
15978	8.8	8807.0	0.791667	0.125000	0.166667	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
25026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15773	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	
24305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17522	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13129	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
10760	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
12360	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	
15978	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	

	Western	Fantasy
25026	0.0	0.0
25027	0.0	0.0
15773	0.0	0.0
24305	0.0	0.0
17522	0.0	0.0
19068	0.0	0.0
13129	0.0	0.0
10760	0.0	0.0

```
12360      0.0      0.0
15978      0.0      0.0
```

```
[10 rows x 30 columns]
```



INSERTING AVERAGE RATING OF CRIME MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464

1.0.15 SHOWING 10 HIGHEST RATED DOCUMENTARY FILMS

	primaryTitle	isAdult	startYear	\
31130	Yuzuru Hanyu Ice Story GIFT at Tokyo Dome	0.0	2023.0	
7219	Dominion	0.0	2018.0	
6386	David Attenborough: A Life on Our Planet	0.0	2020.0	
9407	Gandhada Gudi	0.0	2022.0	
1650	All of Those Voices	0.0	2023.0	
28089	The Weight of Chains 2	0.0	2014.0	
29275	U2: Zoo TV Live from Sydney	0.0	1994.0	
20663	Scream for Me Sarajevo	0.0	2017.0	
30452	While We Watched	0.0	2022.0	
13855	Led Zeppelin: Celebration Day	0.0	2012.0	

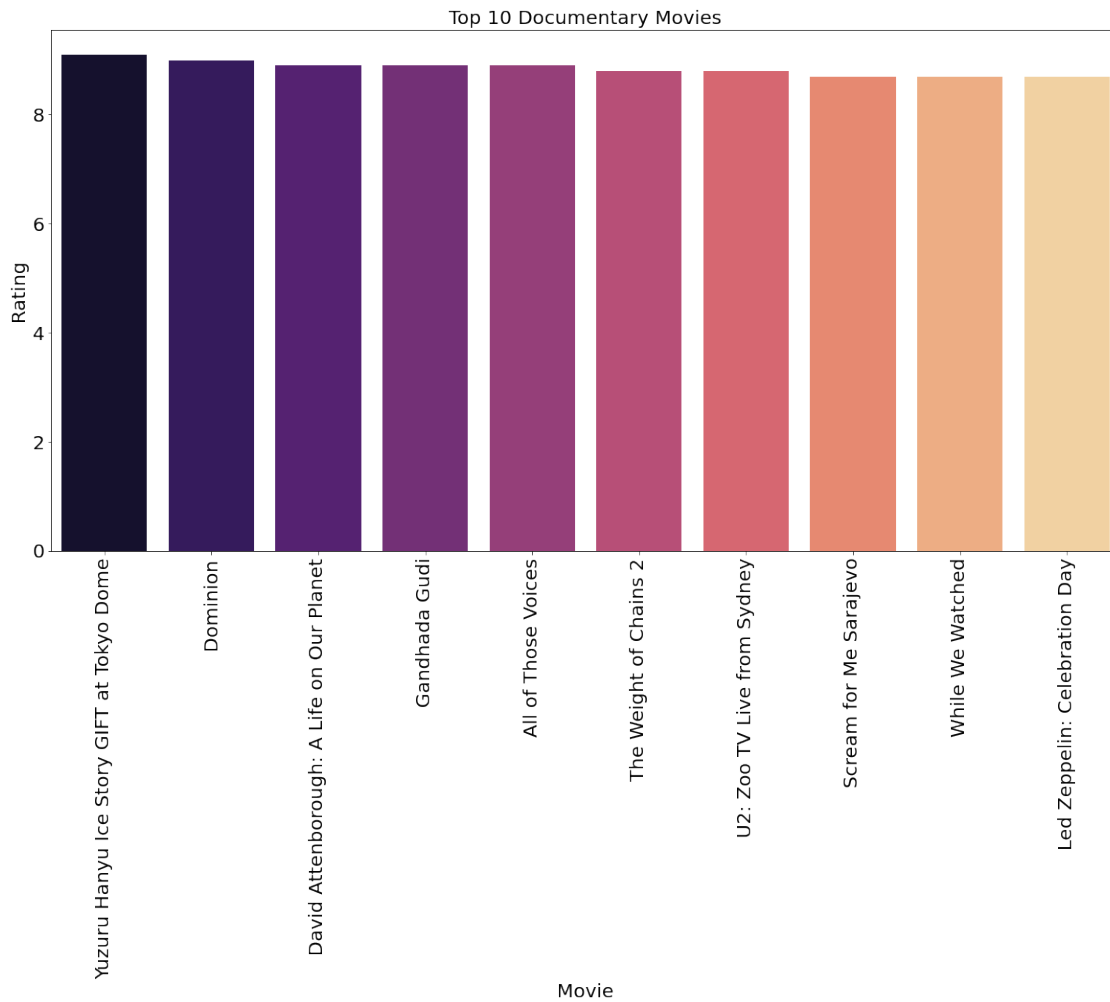
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
31130	162.0	9.1	1460.0	0.500000	0.500000	1.000000	
7219	120.0	9.0	4097.0	0.250000	0.000000	0.750000	
6386	83.0	8.9	33521.0	0.454545	0.090909	0.454545	
9407	99.0	8.9	2836.0	0.666667	0.000000	0.333333	
1650	108.0	8.9	1718.0	0.000000	0.750000	0.250000	
28089	124.0	8.8	1416.0	0.333333	0.000000	0.666667	
29275	118.0	8.8	1110.0	0.333333	0.000000	1.000000	
20663	95.0	8.7	1311.0	0.666667	0.000000	0.666667	
30452	94.0	8.7	1096.0	0.250000	0.000000	0.750000	
13855	124.0	8.7	2642.0	0.200000	0.000000	0.800000	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
31130	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7219	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
6386	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
9407	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1650	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
28089	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
29275	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	
20663	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	
30452	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
13855	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
31130	0.0	0.0	0.0	0.0
7219	0.0	0.0	0.0	0.0
6386	0.0	0.0	0.0	0.0
9407	0.0	0.0	0.0	0.0
1650	0.0	0.0	0.0	0.0
28089	0.0	0.0	0.0	0.0
29275	0.0	0.0	0.0	0.0
20663	0.0	1.0	0.0	0.0

30452	0.0	0.0	0.0	0.0
13855	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF DOCUMENTARY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350

1.0.16 SHOWING 10 HIGHEST RATED DRAMA FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\
12485	Jersey Number 10	0.0	2023.0	142.0	
2223	Ap04ramapuram	0.0	2022.0	144.0	
27325	The Shawshank Redemption	0.0	1994.0	142.0	
1384	Aggrasena	0.0	2023.0	121.0	
9580	Ghoomer	0.0	2023.0	135.0	
3328	Bengaluru Boys	0.0	2023.0	142.0	
16769	National Theatre Live: Prima Facie	0.0	2022.0	120.0	
24008	The Chaos Class	0.0	1975.0	87.0	
25026	The Godfather	0.0	1972.0	175.0	
16662	Nagara Haavu	0.0	1972.0	184.0	

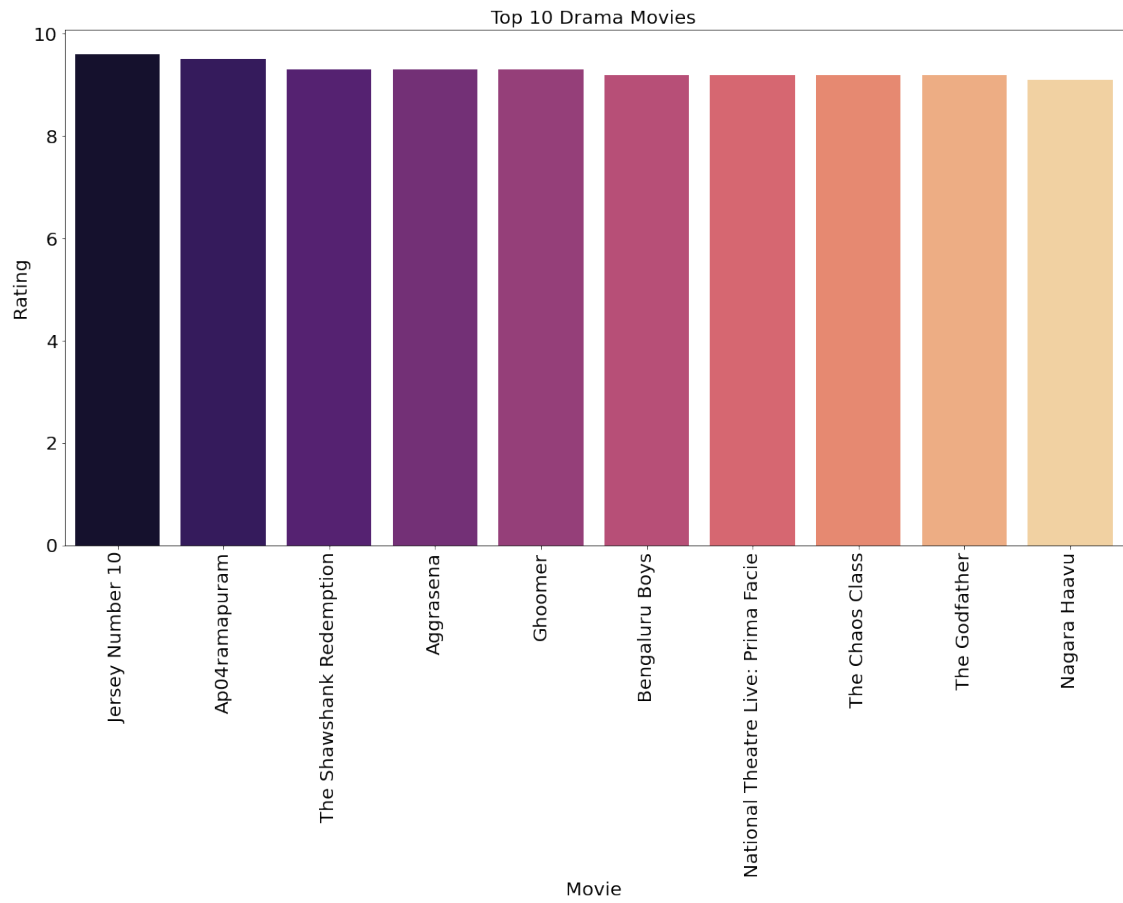
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
12485	9.6	1552.0	0.666667	0.266667	0.200000	0.0	...	
2223	9.5	2133.0	0.375000	0.250000	0.375000	0.0	...	
27325	9.3	2785117.0	0.753425	0.109589	0.246575	0.0	...	
1384	9.3	1030.0	0.428571	0.428571	0.142857	0.0	...	
9580	9.3	1059.0	0.529412	0.205882	0.382353	0.0	...	
3328	9.2	1048.0	0.571429	0.285714	0.142857	0.0	...	
16769	9.2	1367.0	0.000000	0.333333	0.666667	0.0	...	
24008	9.2	42052.0	0.888889	0.000000	0.222222	0.0	...	
25026	9.2	1939355.0	0.725490	0.156863	0.254902	0.0	...	
16662	9.1	1151.0	0.714286	0.285714	0.000000	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
12485	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2223	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
27325	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1384	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9580	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3328	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16769	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16662	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	

	Western	Fantasy
12485	0.0	0.0
2223	0.0	0.0
27325	0.0	0.0
1384	0.0	0.0
9580	0.0	0.0
3328	0.0	0.0
16769	0.0	0.0
24008	0.0	0.0

25026 0.0 0.0
16662 0.0 0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF DRAMA MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442

1.0.17 SHOWING 10 HIGHEST RATED FAMILY FILMS

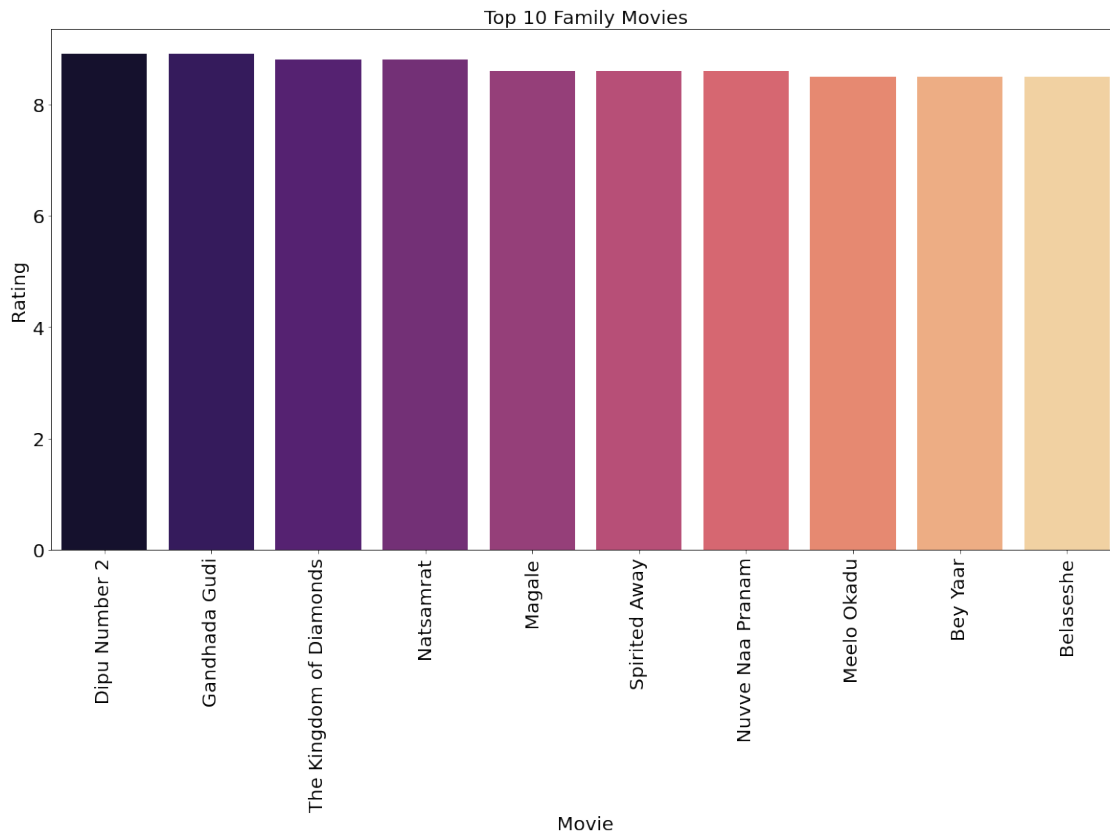
	primaryTitle	isAdult	startYear	runtimeMinutes	\				
7057	Dipu Number 2	0.0	1996.0	154.0					
9407	Gandhada Gudi	0.0	2022.0	99.0					
25681	The Kingdom of Diamonds	0.0	1980.0	118.0					
16777	Natsamrat	0.0	2016.0	166.0					
14866	Magale	0.0	2023.0	119.0					
21989	Spirited Away	0.0	2001.0	125.0					
17347	Nuvve Naa Pranam	0.0	2022.0	167.0					
15434	Meelo Okadu	0.0	2022.0	146.0					
3431	Bey Yaar	0.0	2014.0	150.0					
3275	Belaseshe	0.0	2015.0	141.0					
	averageRating	numVotes	Actor	Actress	Director	Action	\		
7057	8.9	2506.0	1.000000	0.000000	0.000000	0.0	...		
9407	8.9	2836.0	0.666667	0.000000	0.333333	0.0	...		
25681	8.8	2954.0	0.953488	0.023256	0.046512	0.0	...		
16777	8.8	6974.0	0.600000	0.200000	0.600000	0.0	...		
14866	8.6	1012.0	0.500000	0.333333	0.166667	0.0	...		
21989	8.6	804324.0	0.316327	0.387755	0.336735	0.0	...		
17347	8.6	2027.0	0.000000	0.500000	0.500000	0.0	...		
15434	8.5	2005.0	0.857143	0.142857	0.142857	0.0	...		
3431	8.5	2044.0	0.541667	0.250000	0.291667	0.0	...		
3275	8.5	2868.0	0.500000	0.000000	0.500000	0.0	...		
	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
7057	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9407	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25681	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14866	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
21989	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15434	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3431	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3275	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Western	Fantasy							
7057	0.0	0.0							
9407	0.0	0.0							
25681	0.0	0.0							
16777	0.0	0.0							
14866	0.0	0.0							
21989	0.0	0.0							
17347	0.0	0.0							
15434	0.0	0.0							

```

3431      0.0      0.0
3275      0.0      0.0

```

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[10 rows x 30 columns]
```



INSERTING AVERAGE RATING OF FAMILY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217

1.0.18 SHOWING 10 HIGHEST RATED HISTORY FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\
20607	Schindler's List	0.0	1993.0	195.0	
20472	Sarsenapati Hambirrao	0.0	2022.0	158.0	
7392	Dr. Babasaheb Ambedkar	0.0	2000.0	197.0	
28089	The Weight of Chains 2	0.0	2014.0	124.0	
844	A Northern Story of Valor	0.0	1989.0	168.0	
10738	Hemalkasa	0.0	2014.0	119.0	
17790	Oppenheimer	0.0	2023.0	180.0	
18887	Pretty Village, Pretty Flame	0.0	1996.0	115.0	
15591	Methagu	0.0	2021.0	100.0	
19777	Revolution of Our Times	0.0	2021.0	152.0	

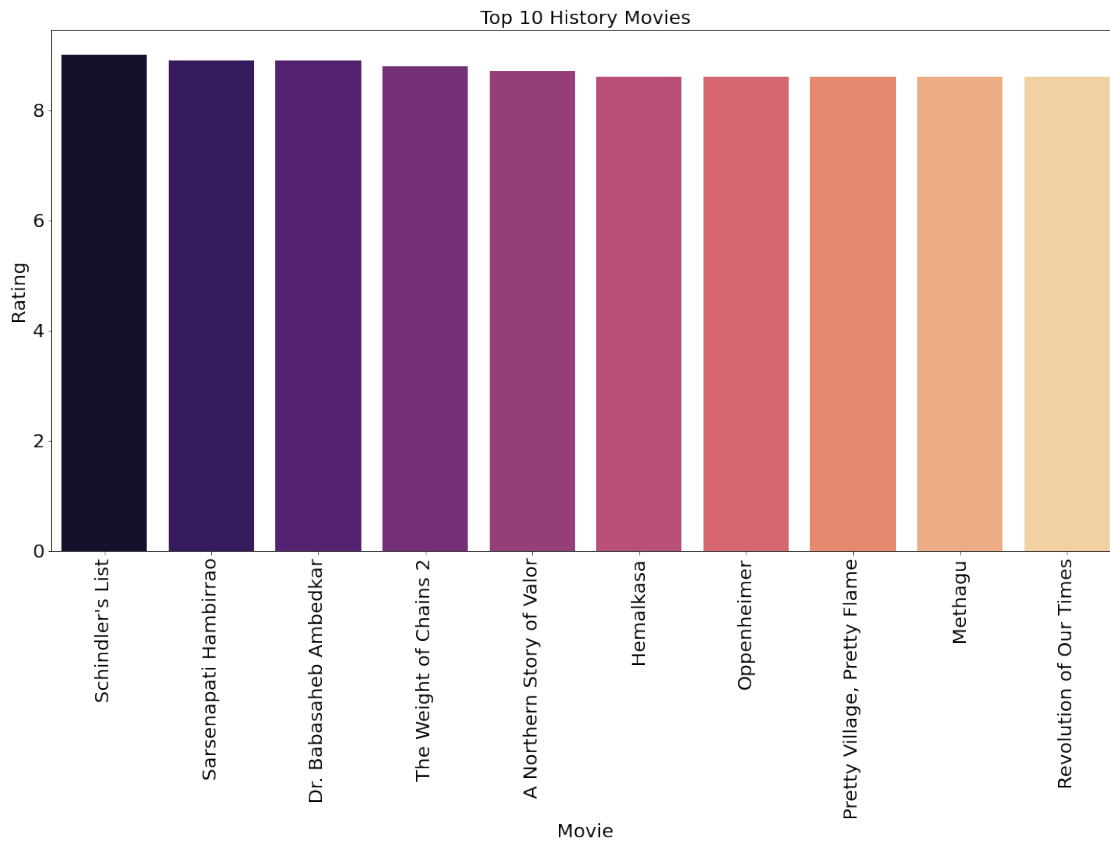
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
20607	9.0	1401229.0	0.641509	0.213836	0.308176	0.0	...	
20472	8.9	2794.0	0.480000	0.160000	0.480000	1.0	...	
7392	8.9	2628.0	0.500000	0.250000	0.250000	0.0	...	
28089	8.8	1416.0	0.333333	0.000000	0.666667	0.0	...	
844	8.7	5733.0	0.375000	0.437500	0.250000	0.0	...	
10738	8.6	1264.0	0.600000	0.200000	0.400000	0.0	...	
17790	8.6	354907.0	0.522124	0.238938	0.415929	0.0	...	
18887	8.6	17252.0	0.591837	0.326531	0.224490	0.0	...	
15591	8.6	8850.0	0.714286	0.000000	0.285714	0.0	...	
19777	8.6	1303.0	0.000000	0.000000	1.000000	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
20607	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20472	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7392	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28089	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
844	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10738	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17790	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18887	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15591	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19777	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Western	Fantasy
20607	0.0	0.0
20472	0.0	0.0
7392	0.0	0.0
28089	0.0	0.0
844	0.0	0.0
10738	0.0	0.0
17790	0.0	0.0
18887	0.0	0.0

```
15591      0.0      0.0
19777      0.0      0.0
```

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[10 rows x 30 columns]
```



INSERTING AVERAGE RATING OF HISTORY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539

1.0.19 SHOWING 10 HIGHEST RATED HORROR FILMS

	primaryTitle	isAdult	startYear	\
16691	Namasthe Ghost	0.0	2023.0	
7219	Dominion	0.0	2018.0	
15079	Manichithrathazhu	0.0	1993.0	
21095	Shhh!	0.0	1993.0	
2869	Bairan Palli	0.0	2023.0	
16768	National Theatre Live: Frankenstein	0.0	2011.0	
1533	Alien	0.0	1979.0	
27330	The Shining	0.0	1980.0	
1101	Aapthamitra	0.0	2004.0	
29132	Tumbbad	0.0	2018.0	

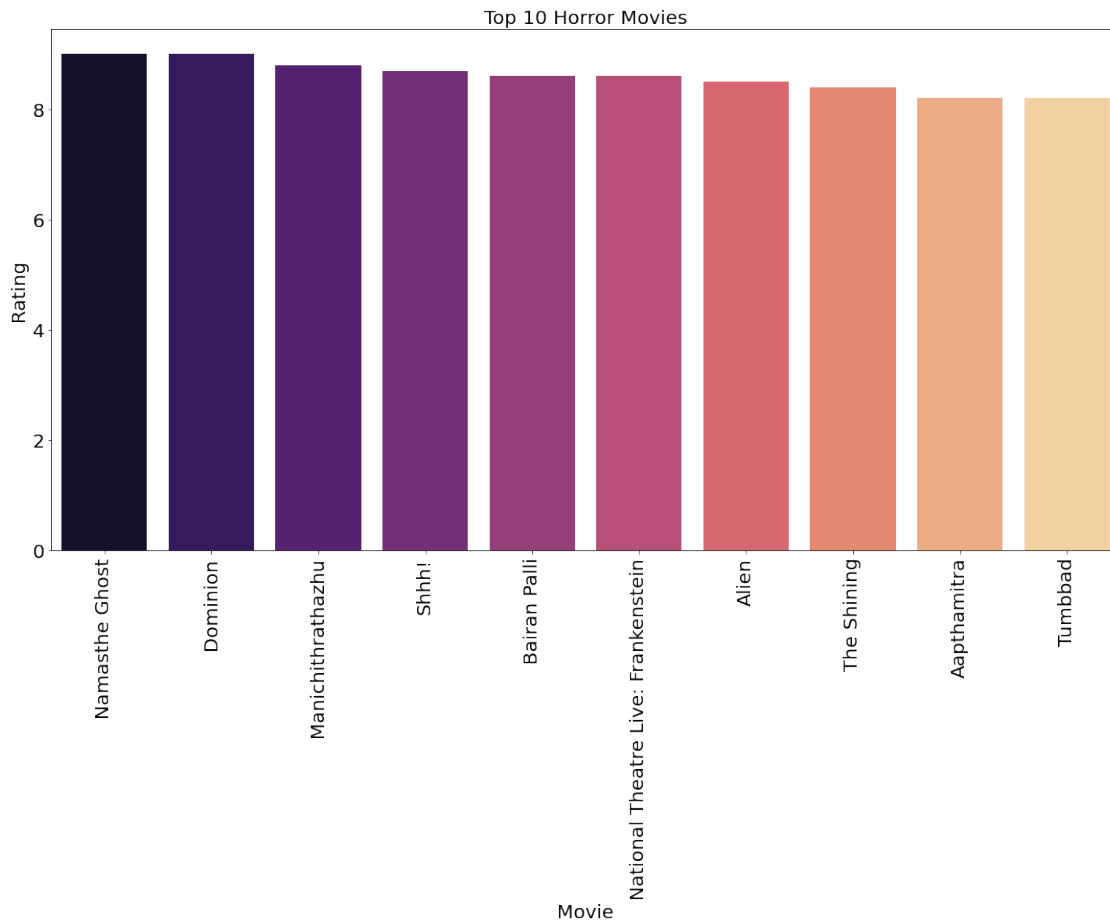
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
16691	127.0	9.0	1104.0	0.800000	0.200000	0.200000	
7219	120.0	9.0	4097.0	0.250000	0.000000	0.750000	
15079	169.0	8.8	11551.0	0.272727	0.454545	0.272727	
21095	135.0	8.7	1221.0	0.500000	0.333333	0.333333	
2869	91.0	8.6	2220.0	0.812500	0.125000	0.062500	
16768	130.0	8.6	4048.0	0.500000	0.250000	0.333333	
1533	117.0	8.5	914615.0	0.366667	0.133333	0.566667	
27330	146.0	8.4	1063561.0	0.444444	0.481481	0.185185	
1101	100.0	8.2	1200.0	0.800000	0.200000	0.400000	
29132	104.0	8.2	54479.0	0.444444	0.079365	0.682540	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
16691	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
7219	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
15079	0.0	...	0.0	1.0	0.0	0.0	1.0	0.0	
21095	0.0	...	0.0	1.0	0.0	0.0	1.0	0.0	
2869	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
16768	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
1533	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
27330	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
1101	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
29132	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
16691	0.0	0.0	0.0	0.0
7219	0.0	0.0	0.0	0.0
15079	0.0	0.0	0.0	0.0
21095	1.0	0.0	0.0	0.0
2869	1.0	0.0	0.0	0.0
16768	0.0	0.0	0.0	0.0
1533	0.0	0.0	0.0	0.0
27330	0.0	0.0	0.0	0.0

1101	1.0	0.0	0.0	0.0
29132	0.0	0.0	0.0	1.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF HORROR MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539

1.0.20 SHOWING 10 HIGHEST RATED MUSIC FILMS

	primaryTitle	isAdult	startYear	\
14839	Madhi	0.0	2022.0	
16662	Nagara Haavu	0.0	1972.0	
20429	Sankarabharanam	0.0	1980.0	
12999	Katyar Kaljat Ghusali	0.0	2015.0	
13927	Les Misérables in Concert: The 25th Anniversary	0.0	2010.0	
829	A Nameless Band	0.0	1981.0	
26756	The Phantom of the Opera at the Royal Albert Hall	0.0	2011.0	
29275	U2: Zoo TV Live from Sydney	0.0	1994.0	
20316	Sagara Sangamam	0.0	1983.0	
15978	Monpura	0.0	2009.0	

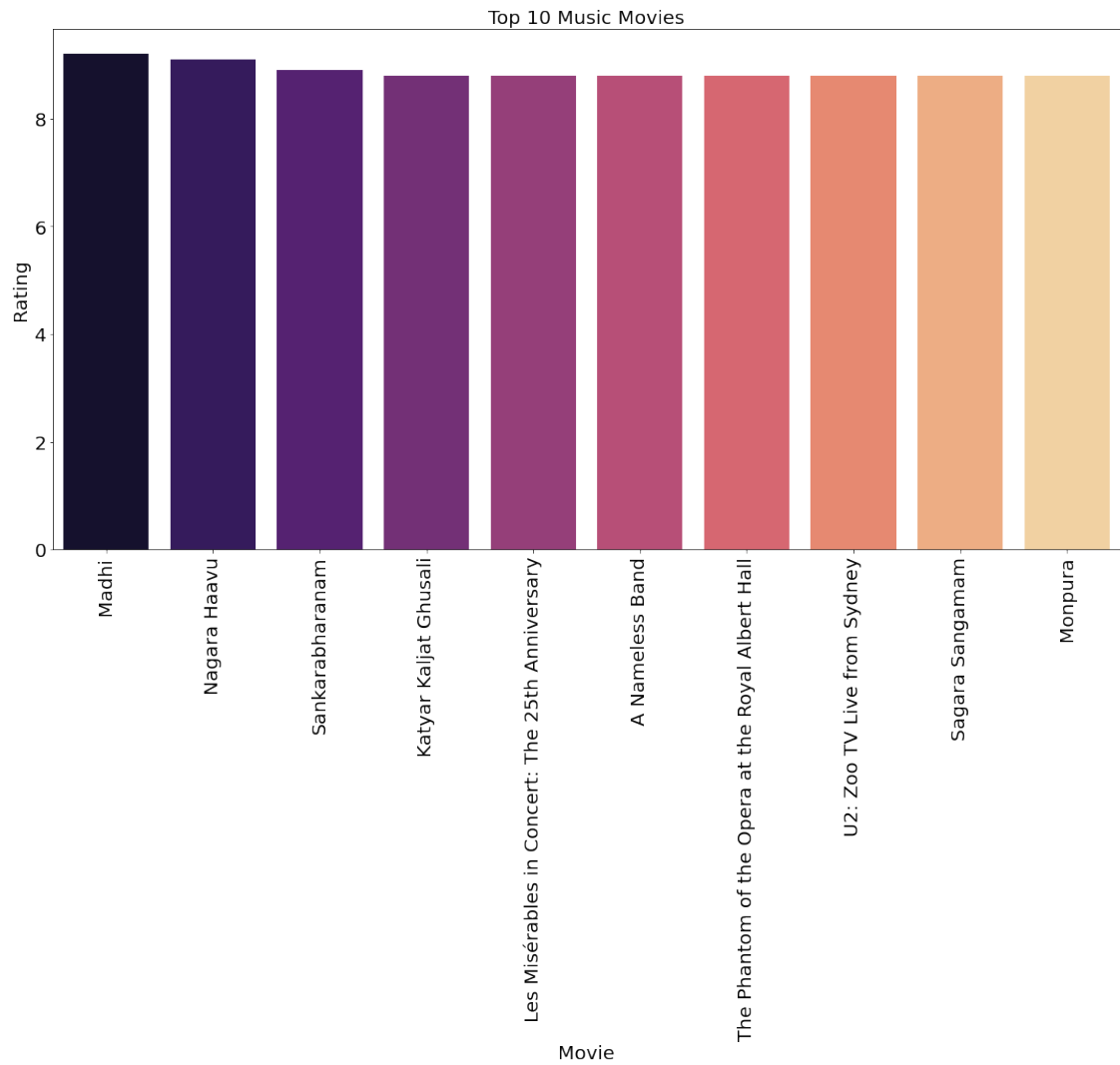
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
14839	139.0	9.2	2157.0	0.500000	0.333333	0.166667	
16662	184.0	9.1	1151.0	0.714286	0.285714	0.000000	
20429	143.0	8.9	2405.0	0.583333	0.166667	0.333333	
12999	162.0	8.8	2488.0	0.733333	0.000000	0.466667	
13927	178.0	8.8	6296.0	0.512821	0.423077	0.076923	
829	112.0	8.8	2258.0	0.592593	0.333333	0.074074	
26756	137.0	8.8	9624.0	0.515528	0.453416	0.043478	
29275	118.0	8.8	1110.0	0.333333	0.000000	1.000000	
20316	160.0	8.8	3493.0	0.500000	0.222222	0.388889	
15978	136.0	8.8	8807.0	0.791667	0.125000	0.166667	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
14839	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
16662	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
20429	0.0	...	0.0	0.0	1.0	0.0	0.0	1.0	
12999	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
13927	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
829	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	
26756	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
29275	0.0	...	0.0	0.0	1.0	0.0	0.0	0.0	
20316	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
15978	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	

	Thriller	War	Western	Fantasy
14839	0.0	0.0	0.0	0.0
16662	0.0	0.0	0.0	0.0
20429	0.0	0.0	0.0	0.0
12999	0.0	0.0	0.0	0.0
13927	0.0	0.0	0.0	0.0
829	0.0	0.0	0.0	0.0

26756	0.0	0.0	0.0	0.0
29275	0.0	0.0	0.0	0.0
20316	0.0	0.0	0.0	0.0
15978	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF MUSIC MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374

5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667

1.0.21 SHOWING 10 HIGHEST RATED MUSICAL FILMS

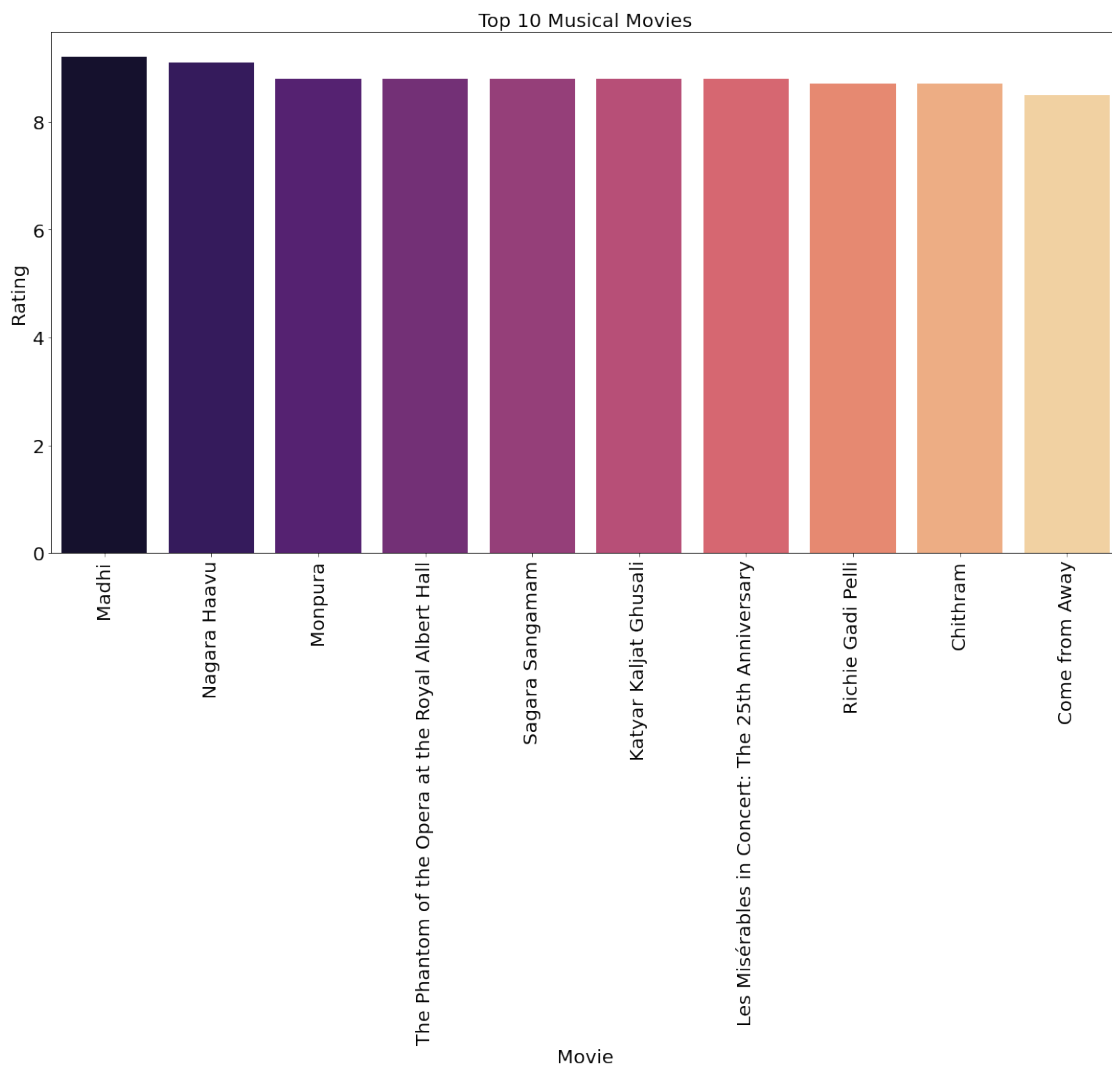
	primaryTitle	isAdult	startYear	\
14839	Madhi	0.0	2022.0	
16662	Nagara Haavu	0.0	1972.0	
15978	Monpura	0.0	2009.0	
26756	The Phantom of the Opera at the Royal Albert Hall	0.0	2011.0	
20316	Sagara Sangamam	0.0	1983.0	
12999	Katyar Kaljat Ghusali	0.0	2015.0	
13927	Les Misérables in Concert: The 25th Anniversary	0.0	2010.0	
19804	Richie Gadi Pelli	0.0	2023.0	
5245	Chithram	0.0	1988.0	
5671	Come from Away	0.0	2021.0	

	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
14839	139.0	9.2	2157.0	0.500000	0.333333	0.166667	
16662	184.0	9.1	1151.0	0.714286	0.285714	0.000000	
15978	136.0	8.8	8807.0	0.791667	0.125000	0.166667	
26756	137.0	8.8	9624.0	0.515528	0.453416	0.043478	
20316	160.0	8.8	3493.0	0.500000	0.222222	0.388889	
12999	162.0	8.8	2488.0	0.733333	0.000000	0.466667	
13927	178.0	8.8	6296.0	0.512821	0.423077	0.076923	
19804	114.0	8.7	3040.0	0.555556	0.111111	0.333333	
5245	159.0	8.7	5748.0	0.666667	0.166667	0.166667	
5671	106.0	8.5	3529.0	0.388889	0.388889	0.277778	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
14839	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
16662	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
15978	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
26756	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
20316	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
12999	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
13927	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
19804	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
5245	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
5671	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	

	Thriller	War	Western	Fantasy
14839	0.0	0.0	0.0	0.0
16662	0.0	0.0	0.0	0.0
15978	0.0	0.0	0.0	0.0
26756	0.0	0.0	0.0	0.0
20316	0.0	0.0	0.0	0.0
12999	0.0	0.0	0.0	0.0
13927	0.0	0.0	0.0	0.0
19804	0.0	0.0	0.0	0.0
5245	0.0	0.0	0.0	0.0
5671	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF MUSICAL MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875

1.0.22 SHOWING 10 HIGHEST RATED MYSTERY FILMS

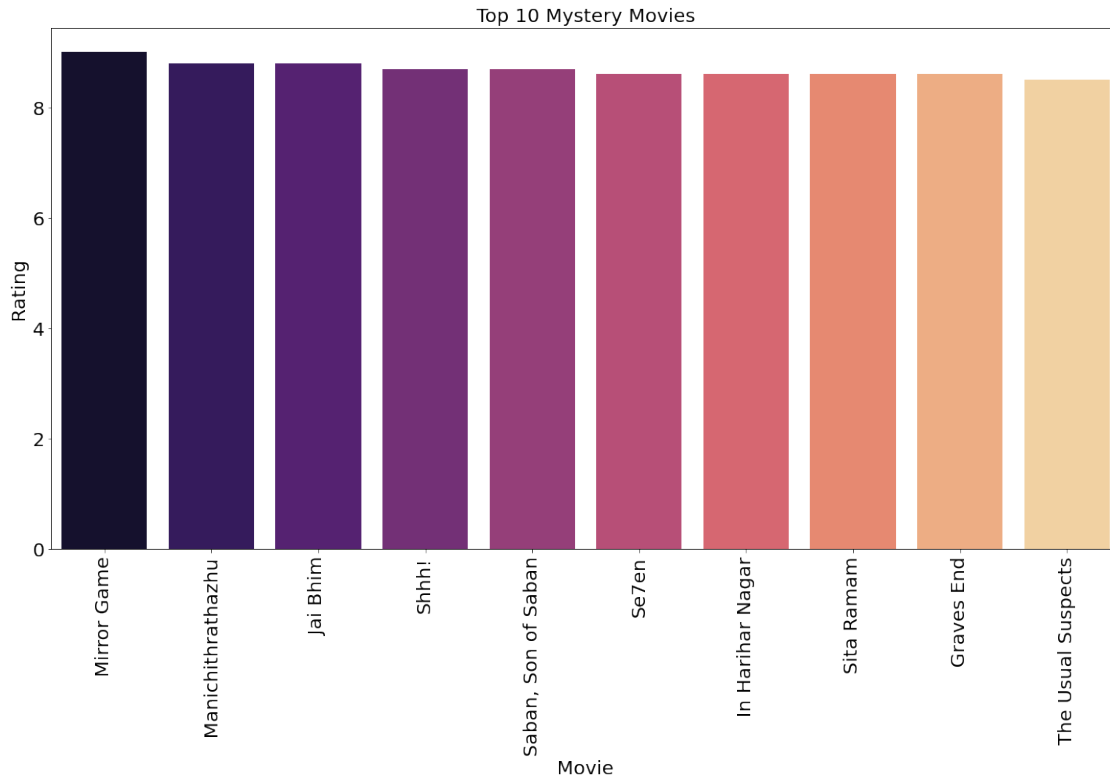
	primaryTitle	isAdult	startYear	runtimeMinutes	averageRating	\
15773	Mirror Game	0.0	2016.0	147.0	9.0	
15079	Manichithrathazhu	0.0	1993.0	169.0	8.8	
12360	Jai Bhim	0.0	2021.0	164.0	8.8	
21095	Shhh!	0.0	1993.0	135.0	8.7	
20274	Saban, Son of Saban	0.0	1977.0	90.0	8.7	
20677	Se7en	0.0	1995.0	127.0	8.6	
11786	In Harihar Nagar	0.0	1990.0	133.0	8.6	
21398	Sita Ramam	0.0	2022.0	163.0	8.6	
10035	Graves End	0.0	2005.0	90.0	8.6	
27939	The Usual Suspects	0.0	1995.0	106.0	8.5	

	numVotes	Actor	Actress	Director	Action	...	History	Horror	\
15773	28916.0	0.823529	0.088235	0.235294	0.0	...	0.0	0.0	
15079	11551.0	0.272727	0.454545	0.272727	0.0	...	0.0	1.0	
12360	209197.0	0.740458	0.213740	0.068702	0.0	...	0.0	0.0	
21095	1221.0	0.500000	0.333333	0.333333	0.0	...	0.0	1.0	
20274	18339.0	0.750000	0.250000	0.125000	0.0	...	0.0	0.0	
20677	1723525.0	0.590476	0.152381	0.342857	0.0	...	0.0	0.0	
11786	3884.0	0.571429	0.428571	0.000000	0.0	...	0.0	0.0	
21398	62089.0	0.610169	0.135593	0.440678	1.0	...	0.0	0.0	
10035	6705.0	0.617647	0.264706	0.117647	0.0	...	0.0	0.0	
27939	1114730.0	0.602564	0.076923	0.423077	0.0	...	0.0	0.0	

	Music	Musical	Mystery	Romance	Thriller	War	Western	Fantasy
15773	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
15079	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
12360	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0

21095	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
20274	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
20677	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
11786	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
21398	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
10035	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
27939	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF MYSTERY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217

10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058

1.0.23 SHOWING 10 HIGHEST RATED ROMANCE FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\			
20429	Sankarabharanam	0.0	1980.0	143.0				
9014	Forrest Gump	0.0	1994.0	142.0				
17349	Nuvvu Naaku Nachchav	0.0	2001.0	184.0				
14028	Life Begins Now	0.0	2017.0	84.0				
5146	Cherasaala	0.0	2022.0	140.0				
16639	Naalo Ninnu Dachaane	0.0	2022.0	118.0				
10161	Gully Gang	0.0	2022.0	100.0				
2989	Barking at the Stars	0.0	1998.0	95.0				
14034	Life Is Beautiful	0.0	1997.0	116.0				
16168	Mr Lonely	0.0	2021.0	108.0				

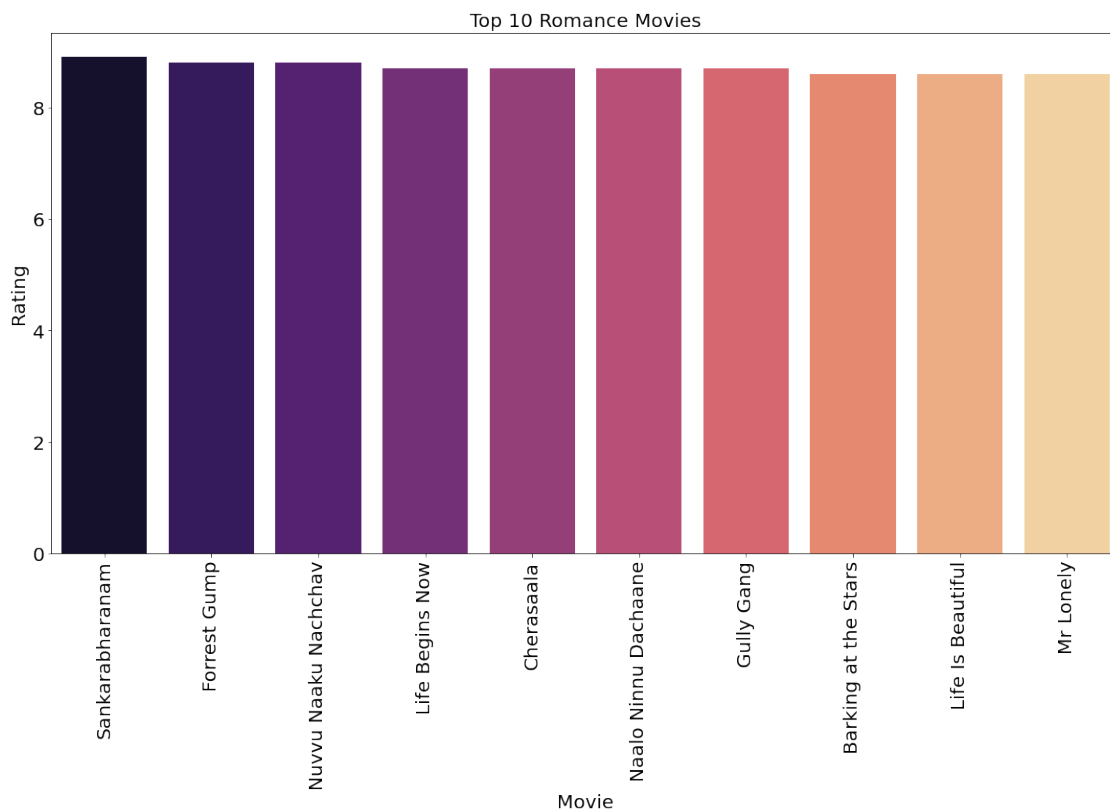
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
20429	8.9	2405.0	0.583333	0.166667	0.333333	0.0	...	
9014	8.8	2166204.0	0.725714	0.177143	0.125714	0.0	...	
17349	8.8	5164.0	0.000000	0.000000	1.000000	0.0	...	
14028	8.7	2218.0	0.300000	0.600000	0.200000	0.0	...	
5146	8.7	1989.0	0.933333	0.066667	0.066667	0.0	...	
16639	8.7	1084.0	0.916667	0.000000	0.083333	0.0	...	
10161	8.7	2029.0	0.812500	0.125000	0.062500	1.0	...	
2989	8.6	7946.0	0.583333	0.333333	0.208333	0.0	...	
14034	8.6	719223.0	0.573171	0.317073	0.207317	0.0	...	
16168	8.6	2419.0	0.200000	0.600000	0.200000	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
20429	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	
9014	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
17349	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
14028	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
5146	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
16639	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
10161	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
2989	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
14034	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	
16168	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	

	Western	Fantasy
20429	0.0	0.0
9014	0.0	0.0

17349	0.0	0.0
14028	0.0	0.0
5146	0.0	0.0
16639	0.0	0.0
10161	0.0	0.0
2989	0.0	0.0
14034	0.0	0.0
16168	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF ROMANCE MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350

8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058
15	Romance	6.315838

1.0.24 SHOWING 10 HIGHEST RATED THRILLER FILMS

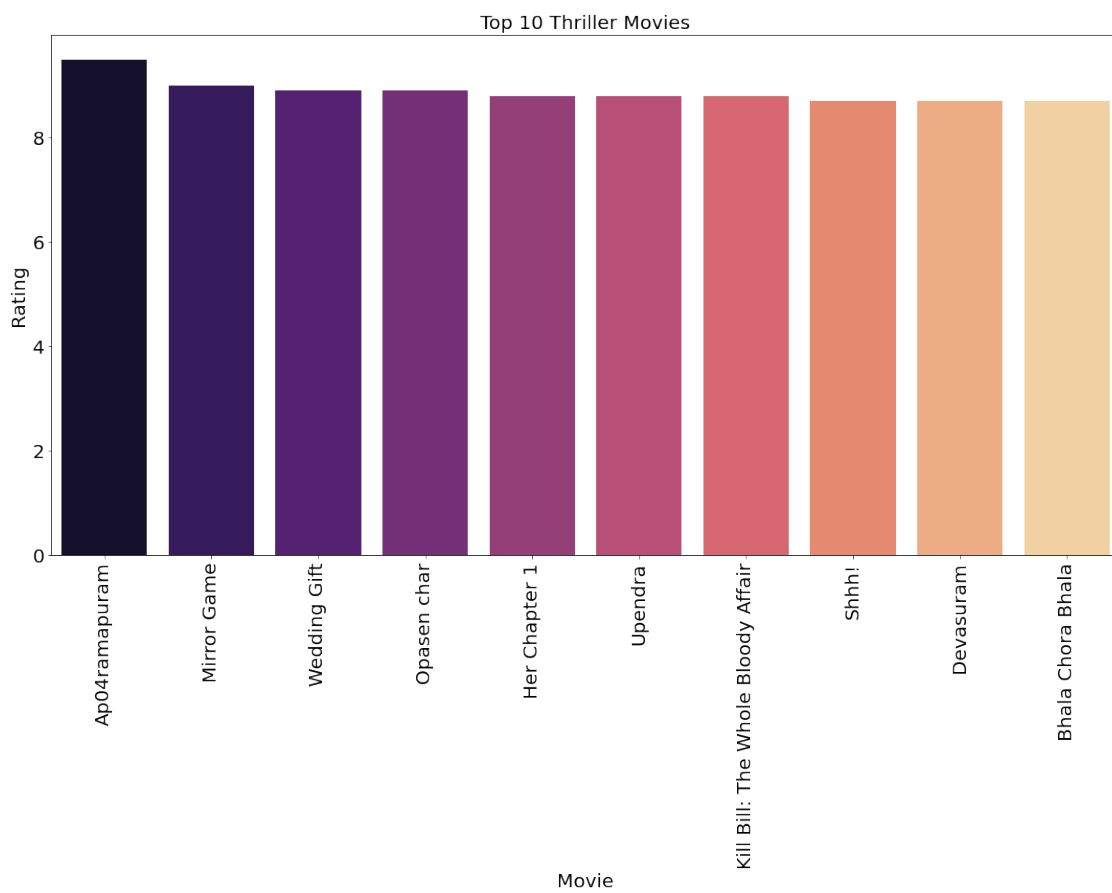
	primaryTitle	isAdult	startYear	runtimeMinutes	\
2223	Ap04ramapuram	0.0	2022.0	144.0	
15773	Mirror Game	0.0	2016.0	147.0	
30196	Wedding Gift	0.0	2022.0	139.0	
17742	Opasen char	0.0	1984.0	90.0	
10760	Her Chapter 1	0.0	2023.0	103.0	
29510	Uppendra	0.0	1999.0	138.0	
13129	Kill Bill: The Whole Bloody Affair	0.0	2006.0	247.0	
21095	Shhh!	0.0	1993.0	135.0	
6883	Devasuram	0.0	1993.0	187.0	
3486	Bhala Chora Bhala	0.0	2022.0	88.0	

	averageRating	numVotes	Actor	Actress	Director	Action	...	\
2223	9.5	2133.0	0.375000	0.250000	0.375000	0.0	...	
15773	9.0	28916.0	0.823529	0.088235	0.235294	0.0	...	
30196	8.9	1520.0	0.375000	0.000000	0.750000	0.0	...	
17742	8.9	1876.0	0.548387	0.387097	0.096774	0.0	...	
10760	8.8	1515.0	0.312500	0.125000	0.562500	0.0	...	
29510	8.8	3320.0	0.272727	0.454545	0.454545	0.0	...	
13129	8.8	14673.0	0.321429	0.607143	0.107143	1.0	...	
21095	8.7	1221.0	0.500000	0.333333	0.333333	0.0	...	
6883	8.7	6054.0	0.741935	0.193548	0.096774	1.0	...	
3486	8.7	1998.0	1.000000	0.000000	0.200000	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
2223	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
15773	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	
30196	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
17742	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
10760	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
29510	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
13129	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
21095	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	
6883	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	
3486	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	

	Western	Fantasy
2223	0.0	0.0
15773	0.0	0.0
30196	0.0	0.0
17742	0.0	0.0
10760	0.0	0.0
29510	0.0	0.0
13129	0.0	0.0
21095	0.0	0.0
6883	0.0	0.0
3486	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF THRILLER MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639

3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058
15	Romance	6.315838
16	Thriller	5.818762

1.0.25 SHOWING 10 HIGHEST RATED WAR FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\			
1400	Aguner Poroshmoni	0.0	1994.0	123.0				
20663	Scream for Me Sarajevo	0.0	2017.0	95.0				
20546	Saving Private Ryan	0.0	1998.0	169.0				
24761	The Fifth Seal	0.0	1976.0	111.0				
10033	Grave of the Fireflies	0.0	1988.0	89.0				
8964	For Sama	0.0	2019.0	100.0				
12935	Kannathil Muthamittal	0.0	2002.0	136.0				
2236	Apocalypse Now	0.0	1979.0	147.0				
28021	The War You Don't See	0.0	2010.0	97.0				
5669	Come and See	0.0	1985.0	142.0				

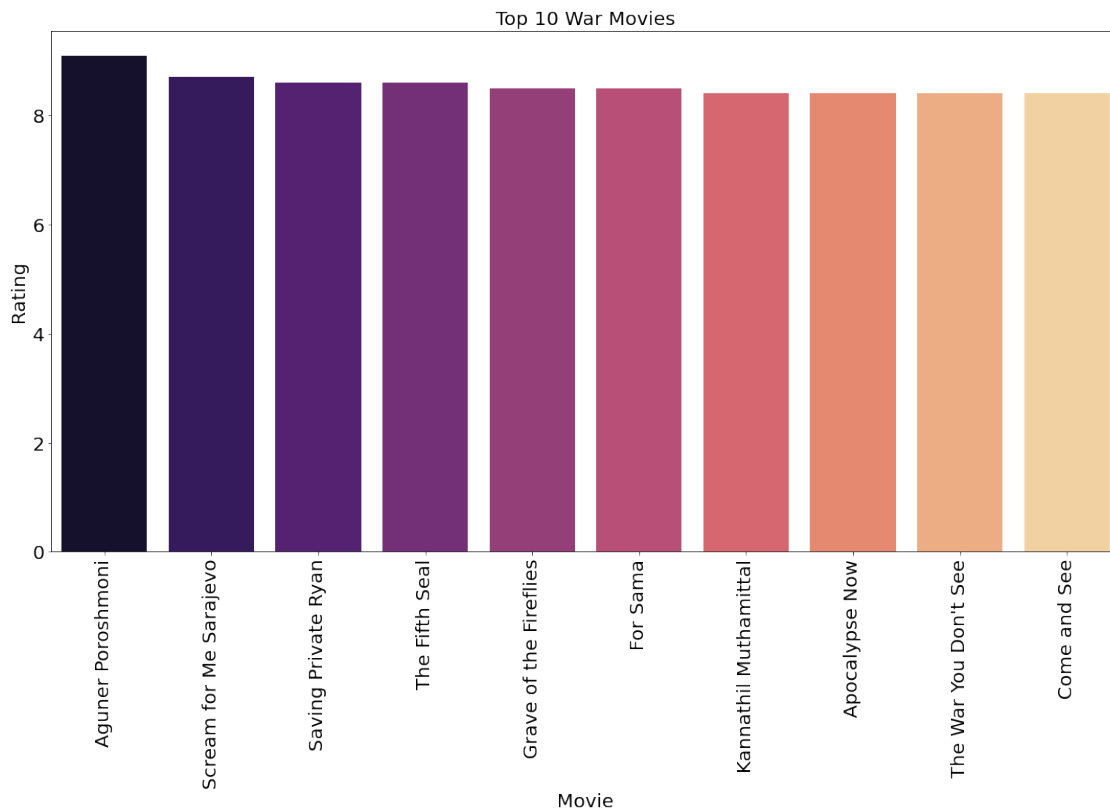
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
1400	9.1	3342.0	0.615385	0.153846	0.269231	0.0	...	
20663	8.7	1311.0	0.666667	0.000000	0.666667	0.0	...	
20546	8.6	1442647.0	0.680412	0.072165	0.340206	0.0	...	
24761	8.6	5322.0	0.000000	0.250000	0.750000	0.0	...	
10033	8.5	293179.0	0.528090	0.247191	0.224719	0.0	...	
8964	8.5	12342.0	0.250000	0.000000	0.750000	0.0	...	
12935	8.4	8966.0	0.416667	0.333333	0.416667	1.0	...	
2236	8.4	689102.0	0.717647	0.094118	0.317647	0.0	...	
28021	8.4	1467.0	0.000000	0.000000	1.000000	0.0	...	
5669	8.4	88838.0	0.697674	0.116279	0.279070	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
1400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
20663	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	
20546	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
24761	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
10033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	

8964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
12935	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
2236	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0
28021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
5669	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0

	Western	Fantasy
1400	0.0	0.0
20663	0.0	0.0
20546	0.0	0.0
24761	0.0	0.0
10033	0.0	0.0
8964	0.0	0.0
12935	0.0	0.0
2236	0.0	0.0
28021	0.0	0.0
5669	0.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF WAR MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058
15	Romance	6.315838
16	Thriller	5.818762
17	War	6.674777

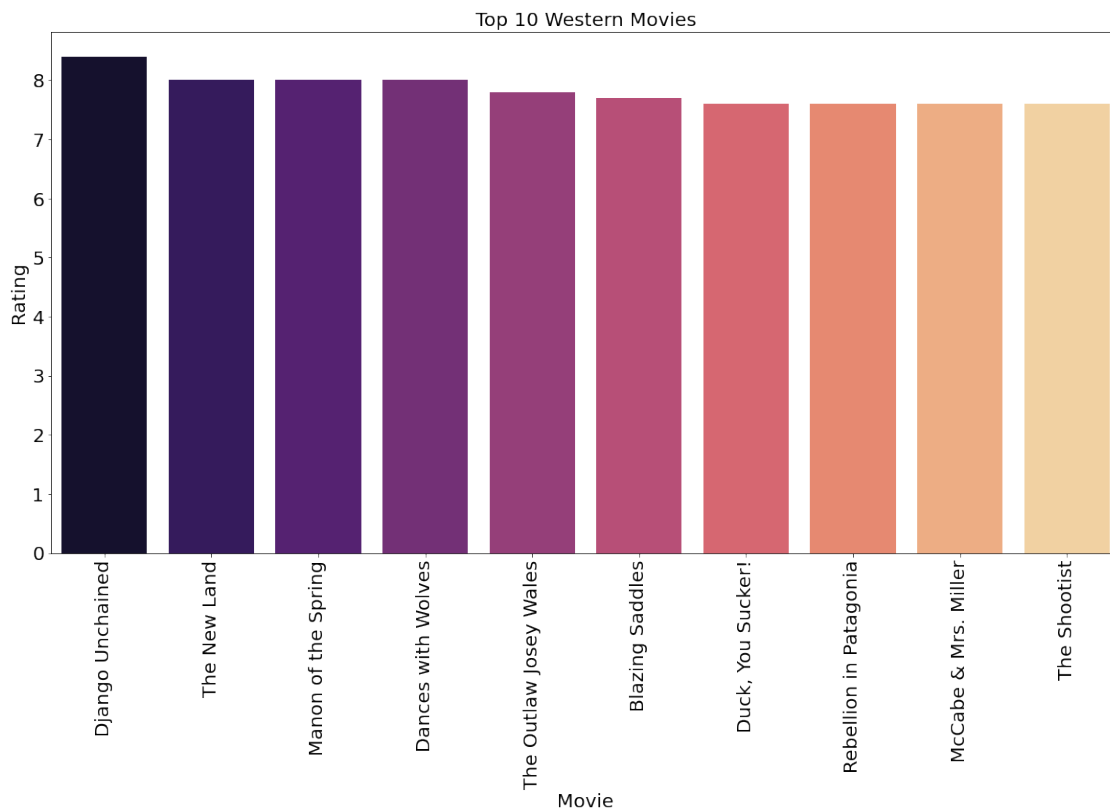
1.0.26 SHOWING 10 HIGHEST RATED WESTERN FILMS

	primaryTitle	isAdult	startYear	runtimeMinutes	\			
7142	Django Unchained	0.0	2012.0	165.0				
26455	The New Land	0.0	1972.0	202.0				
15104	Manon of the Spring	0.0	1986.0	113.0				
6238	Dances with Wolves	0.0	1990.0	181.0				
26640	The Outlaw Josey Wales	0.0	1976.0	135.0				
3807	Blazing Saddles	0.0	1974.0	93.0				
7546	Duck, You Sucker!	0.0	1971.0	157.0				
19494	Rebellion in Patagonia	0.0	1974.0	110.0				
15372	McCabe & Mrs. Miller	0.0	1971.0	120.0				
27338	The Shootist	0.0	1976.0	100.0				
	averageRating	numVotes	Actor	Actress	Director	Action	...	\
7142	8.4	1625237.0	0.540230	0.229885	0.333333	0.0	...	
26455	8.0	4991.0	0.545455	0.363636	0.090909	0.0	...	
15104	8.0	23305.0	0.571429	0.285714	0.142857	0.0	...	
6238	8.0	280321.0	0.650000	0.130000	0.330000	0.0	...	
26640	7.8	77441.0	0.687500	0.218750	0.218750	0.0	...	
3807	7.7	146605.0	0.609756	0.170732	0.390244	0.0	...	
7546	7.6	36317.0	0.815789	0.052632	0.263158	0.0	...	
19494	7.6	1229.0	0.500000	0.000000	0.500000	0.0	...	
15372	7.6	26670.0	0.666667	0.259259	0.129630	0.0	...	
27338	7.6	25968.0	0.714286	0.142857	0.285714	0.0	...	
History Horror Music Musical Mystery Romance Thriller War \								

7142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26455	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6238	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26640	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3807	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7546	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
19494	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15372	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27338	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0

	Western	Fantasy
7142	1.0	0.0
26455	1.0	0.0
15104	1.0	0.0
6238	1.0	0.0
26640	1.0	0.0
3807	1.0	0.0
7546	1.0	0.0
19494	1.0	0.0
15372	1.0	0.0
27338	1.0	0.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF WESTERN MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539
11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058
15	Romance	6.315838
16	Thriller	5.818762
17	War	6.674777
18	Western	6.176158

1.0.27 SHOWING 10 HIGHEST RATED FANTASY FILMS

	primaryTitle	isAdult	startYear	\
6749	Demon Slayer: Kimetsu no Yaiba - Tsuzumi Mansi...	0.0	2021.0	
25906	The Legend of Maula Jatt	0.0	2022.0	
22133	Star Wars: Episode V - The Empire Strikes Back	0.0	1980.0	
22131	Star Wars: Episode IV - A New Hope	0.0	1977.0	
25145	The Green Mile	0.0	1999.0	
631	A Dog's Will	0.0	2000.0	
2570	Attack on Titan: The Roar of Awakening	0.0	2018.0	
31103	Your Name.	0.0	2016.0	
30140	We Are Not Angels	0.0	1992.0	
29856	Violet Evergarden: The Movie	0.0	2020.0	

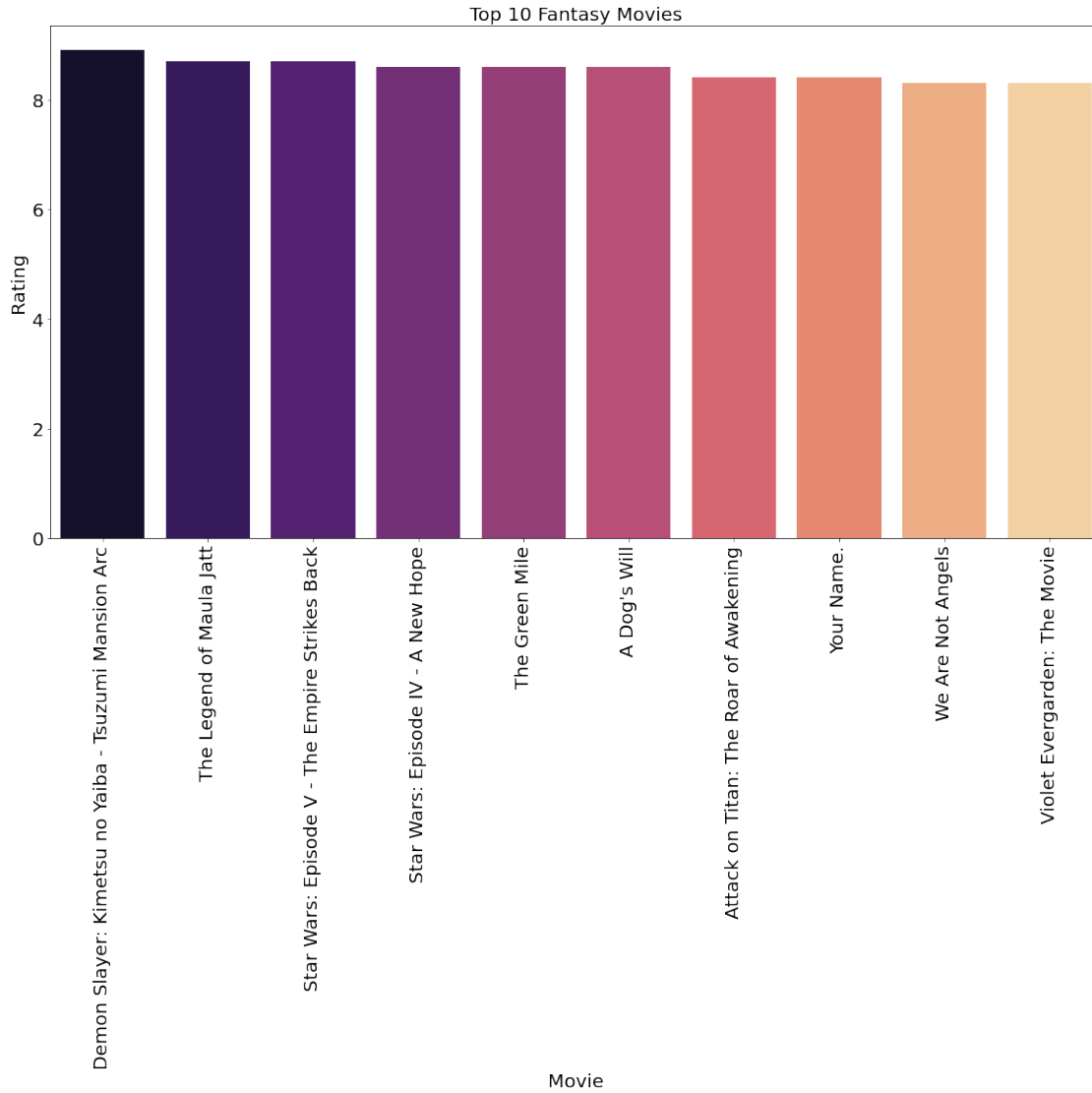
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
6749	87.0	8.9	20653.0	0.000000	0.000000	1.000000	
25906	153.0	8.7	10186.0	0.803030	0.151515	0.106061	
22133	124.0	8.7	1336267.0	0.585859	0.070707	0.434343	
22131	121.0	8.6	1408199.0	0.629630	0.092593	0.379630	
25145	189.0	8.6	1353631.0	0.532258	0.209677	0.338710	
631	104.0	8.6	15876.0	0.375000	0.187500	0.500000	
2570	120.0	8.4	5774.0	1.000000	0.000000	0.000000	

31103	106.0	8.4	295691.0	0.310345	0.298851	0.425287
30140	98.0	8.3	9172.0	0.235294	0.647059	0.176471
29856	140.0	8.3	8822.0	0.000000	1.000000	0.000000

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
6749	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
25906	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
22133	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
22131	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
25145	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
631	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
2570	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
31103	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
30140	0.0	...	0.0	0.0	0.0	0.0	0.0	1.0	
29856	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
6749	0.0	0.0	0.0	1.0
25906	0.0	0.0	0.0	1.0
22133	0.0	0.0	0.0	1.0
22131	0.0	0.0	0.0	1.0
25145	0.0	0.0	0.0	1.0
631	0.0	0.0	0.0	1.0
2570	0.0	0.0	0.0	1.0
31103	0.0	0.0	0.0	1.0
30140	0.0	0.0	0.0	1.0
29856	0.0	0.0	0.0	1.0

[10 rows x 30 columns]



INSERTING AVERAGE RATING OF FANTASY MOVIES IN A DATASET

	Genre	Rating
0	Action	5.955280
1	Adult	5.458333
2	Adventure	6.084639
3	Animation	6.651026
4	Biography	6.940374
5	Comedy	6.114568
6	Crime	6.304464
7	Documentary	7.252350
8	Drama	6.488442
9	Family	6.119217
10	History	6.826539

11	Horror	5.230683
12	Music	6.632667
13	Musical	6.452875
14	Mystery	5.974058
15	Romance	6.315838
16	Thriller	5.818762
17	War	6.674777
18	Western	6.176158
19	Fantasy	5.890747

1.0.28 TOP 10 MOVIES BETWEEN 2020-2023

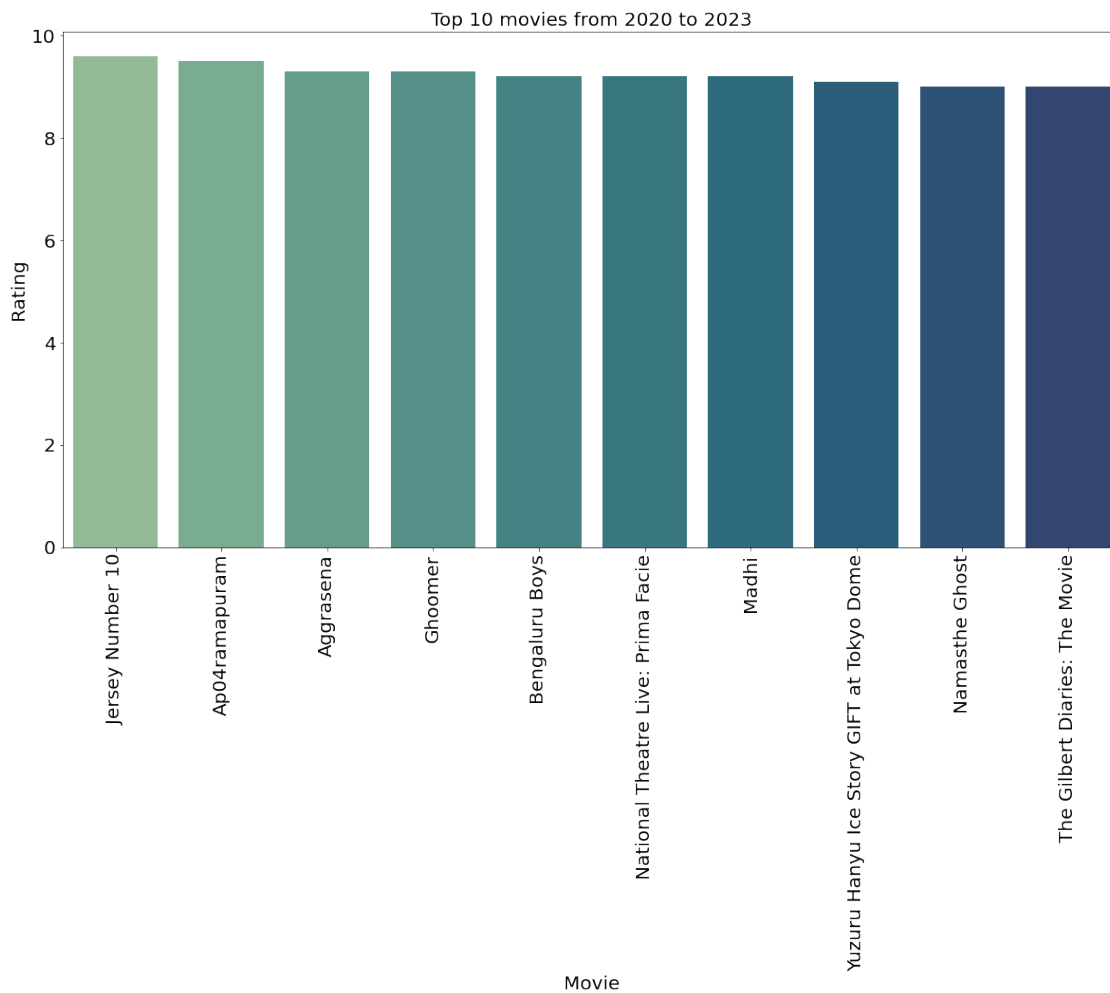
	primaryTitle	isAdult	startYear	\				
12485	Jersey Number 10	0.0	2023.0					
2223	Ap04ramapuram	0.0	2022.0					
1384	Aggrasena	0.0	2023.0					
9580	Ghoomer	0.0	2023.0					
3328	Bengaluru Boys	0.0	2023.0					
16769	National Theatre Live: Prima Facie	0.0	2022.0					
14839	Madhi	0.0	2022.0					
31130	Yuzuru Hanyu Ice Story GIFT at Tokyo Dome	0.0	2023.0					
16691	Namasthe Ghost	0.0	2023.0					
24976	The Gilbert Diaries: The Movie	0.0	2023.0					

	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\	
12485	142.0	9.6	1552.0	0.666667	0.266667	0.200000		
2223	144.0	9.5	2133.0	0.375000	0.250000	0.375000		
1384	121.0	9.3	1030.0	0.428571	0.428571	0.142857		
9580	135.0	9.3	1059.0	0.529412	0.205882	0.382353		
3328	142.0	9.2	1048.0	0.571429	0.285714	0.142857		
16769	120.0	9.2	1367.0	0.000000	0.333333	0.666667		
14839	139.0	9.2	2157.0	0.500000	0.333333	0.166667		
31130	162.0	9.1	1460.0	0.500000	0.500000	1.000000		
16691	127.0	9.0	1104.0	0.800000	0.200000	0.200000		
24976	97.0	9.0	1190.0	0.688889	0.266667	0.088889		

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\	
12485	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
2223	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
1384	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
9580	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
3328	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
16769	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
14839	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0		
31130	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		
16691	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0		
24976	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0		

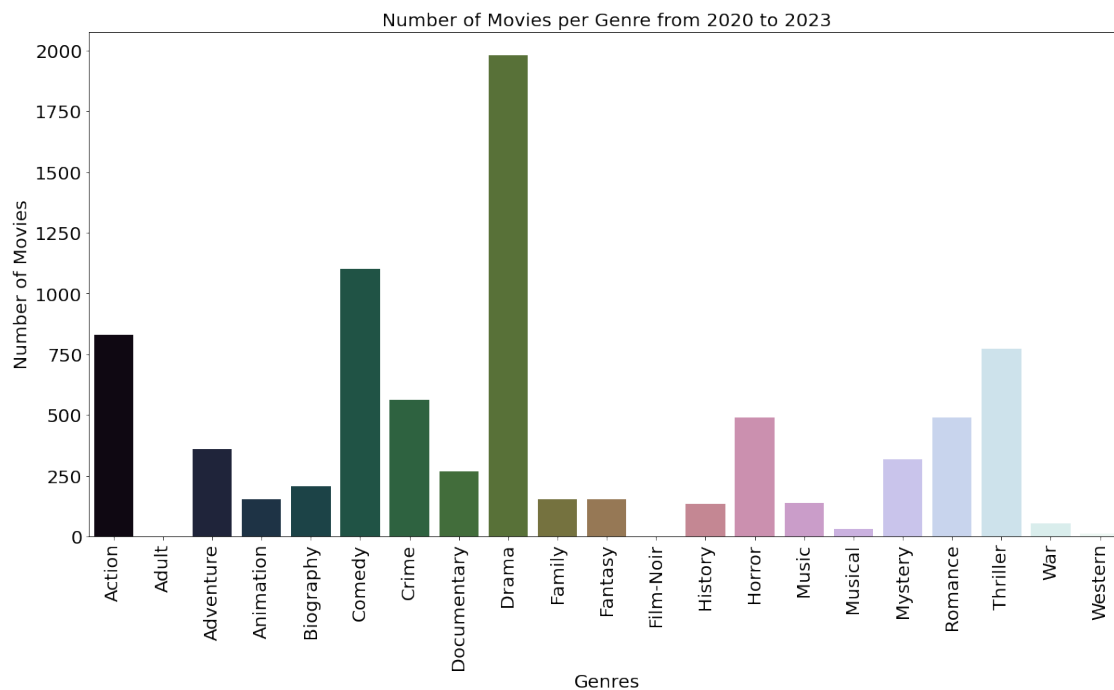
	Thriller	War	Western	Fantasy
12485	0.0	0.0	0.0	0.0
2223	1.0	0.0	0.0	0.0
1384	0.0	0.0	0.0	0.0
9580	0.0	0.0	0.0	0.0
3328	0.0	0.0	0.0	0.0
16769	0.0	0.0	0.0	0.0
14839	0.0	0.0	0.0	0.0
31130	0.0	0.0	0.0	0.0
16691	0.0	0.0	0.0	0.0
24976	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



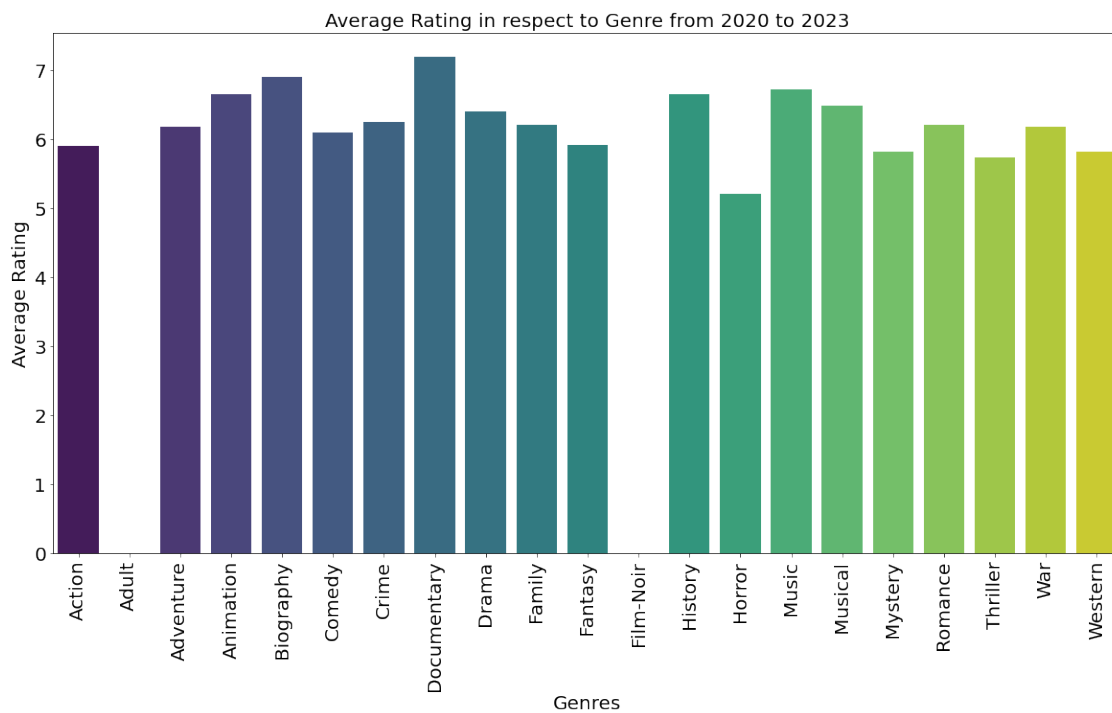
1.0.29 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 2020 AND 2023

	Genre	BinaryValue
0	Action	829.248229
3	Adult	0.000000
4	Adventure	358.708723
5	Animation	151.911771
6	Biography	208.389928
7	Comedy	1102.060184
8	Crime	562.895420
10	Documentary	269.803853
11	Drama	1977.831184
12	Family	151.685480
13	Fantasy	154.536756
14	Film-Noir	0.000000
15	History	135.862319
16	Horror	489.391161
17	Music	137.089728
18	Musical	33.000000
19	Mystery	319.054538
20	Romance	489.653592
21	Thriller	773.112028
22	War	54.328767
23	Western	11.000000



1.0.30 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 2020 AND 2023

	Genre	Rating
0	Action	5.902212
1	Adult	NaN
2	Adventure	6.181020
3	Animation	6.644000
4	Biography	6.897044
5	Comedy	6.086409
6	Crime	6.249334
7	Documentary	7.182528
8	Drama	6.394142
9	Family	6.204636
10	Fantasy	5.906623
11	Film-Noir	NaN
12	History	6.654135
13	Horror	5.204959
14	Music	6.719259
15	Musical	6.481818
16	Mystery	5.810899
17	Romance	6.201109
18	Thriller	5.727697
19	War	6.174074
20	Western	5.809091



INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 2020 AND 2023 IN A DATASET

	Year	Rating
0	2020-2023	6.154408

1.0.31 TOP 10 MOVIES BETWEEN 2010-2020

	primaryTitle	isAdult	startYear	\
15773	Mirror Game	0.0	2016.0	
10736	Helsreach: The Movie	0.0	2019.0	
7219	Dominion	0.0	2018.0	
27930	The Unnamed	0.0	2016.0	
4626	C/o Kancharapalem	0.0	2018.0	
11906	Inception	0.0	2010.0	
16777	Natsamrat	0.0	2016.0	
12999	Katyar Kaljat Ghusali	0.0	2015.0	
13927	Les Misérables in Concert: The 25th Anniversary	0.0	2010.0	
4992	Chaal Jeevi Laiye	0.0	2019.0	

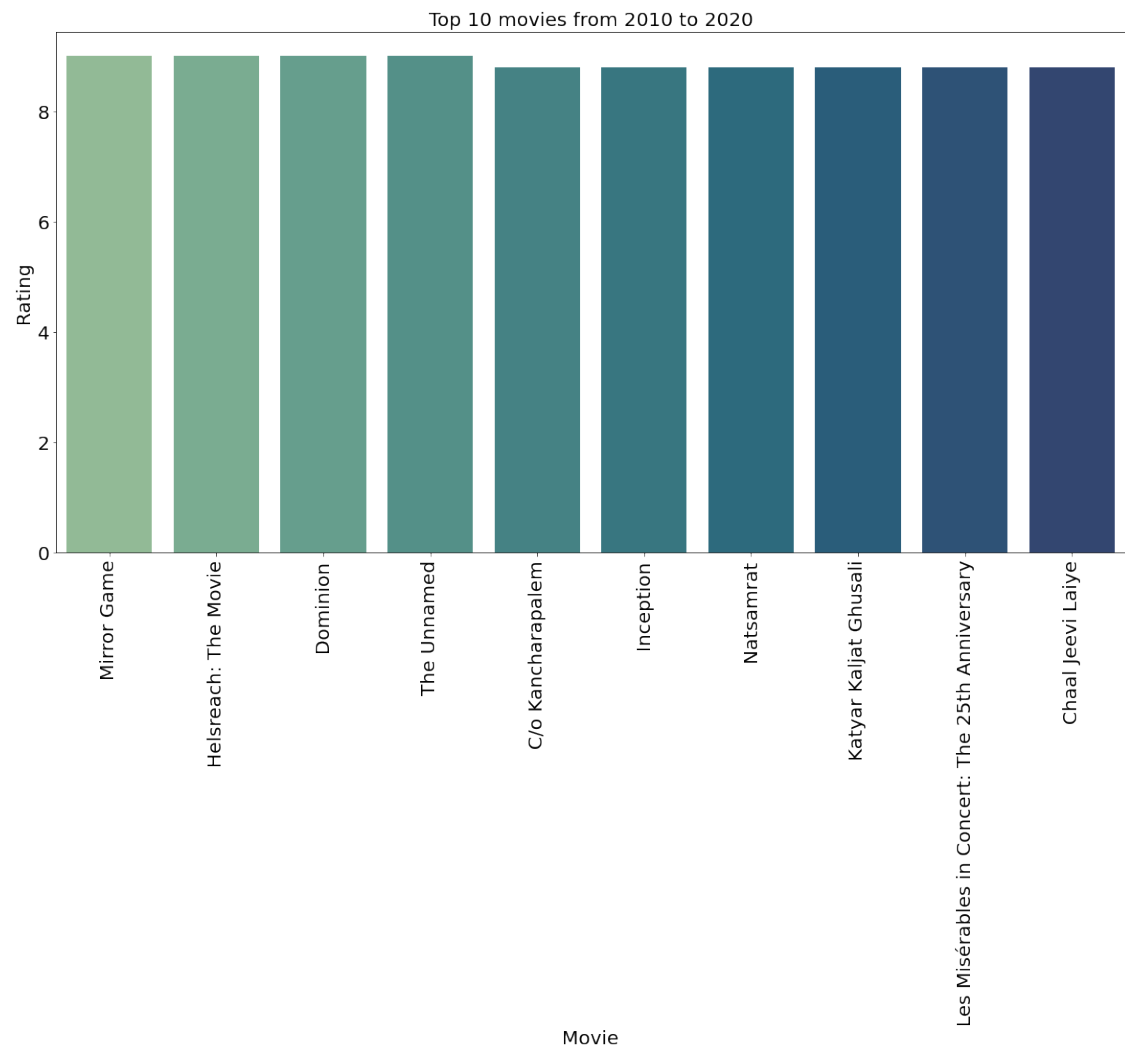
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
15773	147.0	9.0	28916.0	0.823529	0.088235	0.235294	
10736	150.0	9.0	1300.0	1.000000	0.000000	1.000000	
7219	120.0	9.0	4097.0	0.250000	0.000000	0.750000	
27930	100.0	9.0	5633.0	0.766667	0.133333	0.233333	
4626	152.0	8.8	7585.0	0.822581	0.177419	0.016129	
11906	148.0	8.8	2454098.0	0.468672	0.147870	0.471178	
16777	166.0	8.8	6974.0	0.600000	0.200000	0.600000	
12999	162.0	8.8	2488.0	0.733333	0.000000	0.466667	
13927	178.0	8.8	6296.0	0.512821	0.423077	0.076923	
4992	137.0	8.8	1409.0	0.600000	0.100000	0.500000	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
15773	0.0	...	0.0	0.0	0.0	0.0	1.0	0.0	
10736	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7219	0.0	...	0.0	1.0	0.0	0.0	0.0	0.0	
27930	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
4626	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
11906	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
16777	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
12999	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
13927	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
4992	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
15773	1.0	0.0	0.0	0.0
10736	0.0	0.0	0.0	0.0
7219	0.0	0.0	0.0	0.0

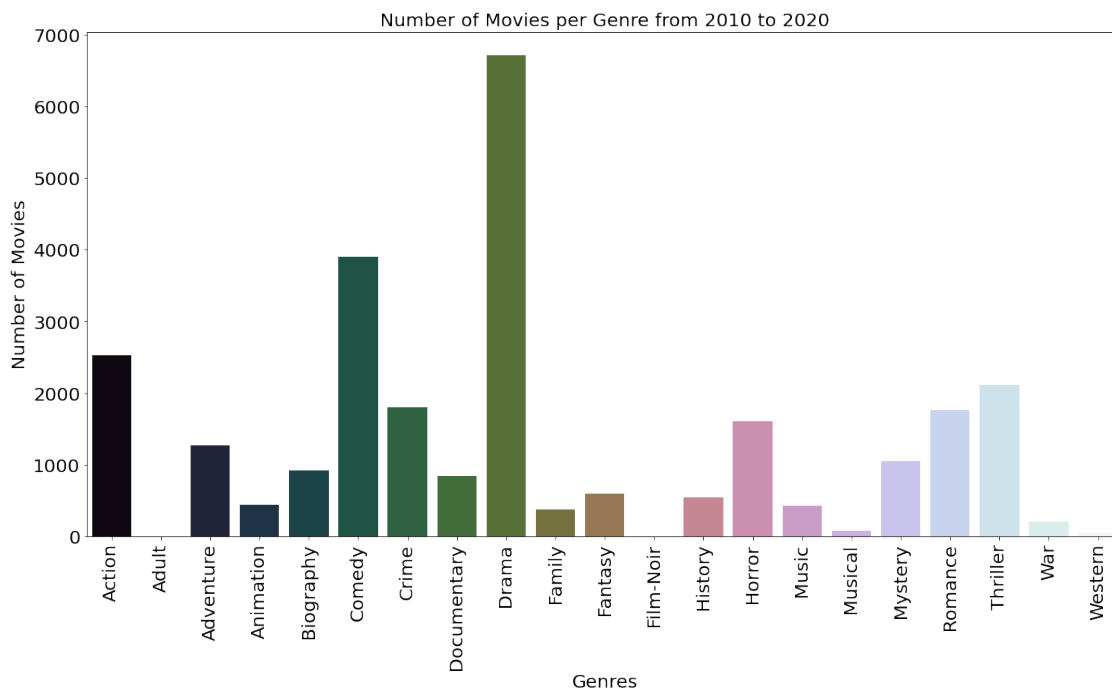
27930	0.0	0.0	0.0	0.0
4626	0.0	0.0	0.0	0.0
11906	0.0	0.0	0.0	0.0
16777	0.0	0.0	0.0	0.0
12999	0.0	0.0	0.0	0.0
13927	0.0	0.0	0.0	0.0
4992	0.0	0.0	0.0	0.0

[10 rows x 30 columns]



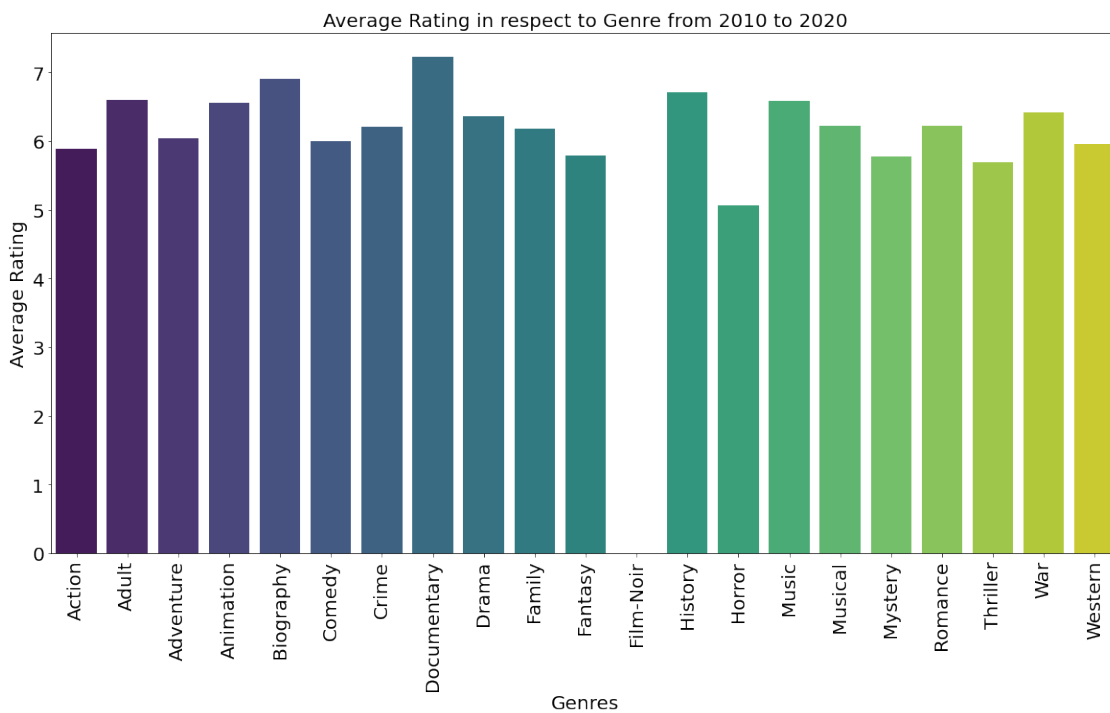
1.0.32 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 2010 AND 2020

	Genre	BinaryValue
0	Action	2524.912186
3	Adult	1.000000
4	Adventure	1265.895230
5	Animation	436.057608
6	Biography	921.409273
7	Comedy	3901.334309
8	Crime	1799.730370
10	Documentary	847.068813
11	Drama	6702.926892
12	Family	382.896503
13	Fantasy	603.124953
14	Film-Noir	0.000000
15	History	545.092503
16	Horror	1603.982496
17	Music	432.058533
18	Musical	79.175513
19	Mystery	1054.396269
20	Romance	1759.324087
21	Thriller	2113.707341
22	War	212.889380
23	Western	52.190006



1.0.33 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 2010 AND 2020

	Genre	Rating
0	Action	5.890283
1	Adult	6.600000
2	Adventure	6.038370
3	Animation	6.552470
4	Biography	6.904625
5	Comedy	6.001697
6	Crime	6.212560
7	Documentary	7.222354
8	Drama	6.364615
9	Family	6.178997
10	Fantasy	5.789350
11	Film-Noir	NaN
12	History	6.707339
13	Horror	5.064153
14	Music	6.592498
15	Musical	6.222368
16	Mystery	5.777696
17	Romance	6.227940
18	Thriller	5.694310
19	War	6.426000
20	Western	5.962000



INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 2010 AND 2020 IN A DATASET

	Year	Rating
0	2020-2023	6.154408
1	2010-2020	6.120038

1.0.34 TOP 10 MOVIES BETWEEN 2000-2010

	primaryTitle	isAdult	startYear	\
26038	The Lord of the Rings: The Return of the King	0.0	2003.0	
24305	The Dark Knight	0.0	2008.0	
7392	Dr. Babasaheb Ambedkar	0.0	2000.0	
26037	The Lord of the Rings: The Fellowship of the Ring	0.0	2001.0	
15978	Monpura	0.0	2009.0	
26039	The Lord of the Rings: The Two Towers	0.0	2002.0	
17349	Nuvvu Naaku Nachchav	0.0	2001.0	
13129	Kill Bill: The Whole Bloody Affair	0.0	2006.0	
1070	Aa Naluguru	0.0	2004.0	
631	A Dog's Will	0.0	2000.0	

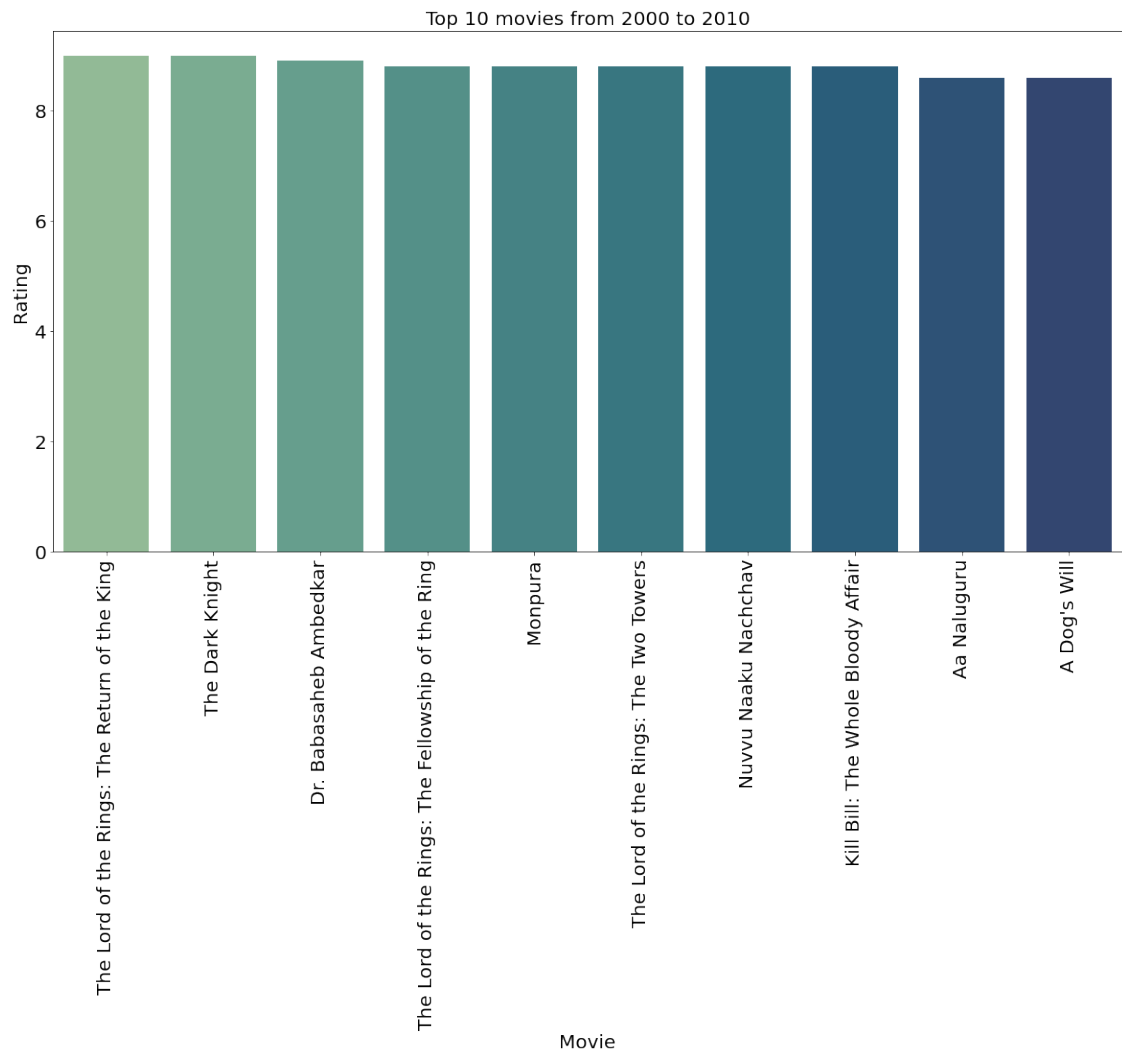
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
26038	201.0	9.0	1908494.0	0.572581	0.120968	0.383065	
24305	152.0	9.0	2764052.0	0.717073	0.121951	0.307317	
7392	197.0	8.9	2628.0	0.500000	0.250000	0.250000	
26037	178.0	8.8	1936680.0	0.531773	0.140468	0.414716	
15978	136.0	8.8	8807.0	0.791667	0.125000	0.166667	
26039	179.0	8.8	1722204.0	0.574163	0.162679	0.354067	
17349	184.0	8.8	5164.0	0.000000	0.000000	1.000000	
13129	247.0	8.8	14673.0	0.321429	0.607143	0.107143	
1070	141.0	8.6	3416.0	0.250000	0.250000	0.500000	
631	104.0	8.6	15876.0	0.375000	0.187500	0.500000	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
26038	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
24305	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7392	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
26037	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
15978	0.0	...	0.0	0.0	1.0	1.0	0.0	0.0	
26039	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
17349	0.0	...	0.0	0.0	0.0	0.0	0.0	1.0	
13129	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1070	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
631	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
26038	0.0	0.0	0.0	0.0
24305	0.0	0.0	0.0	0.0

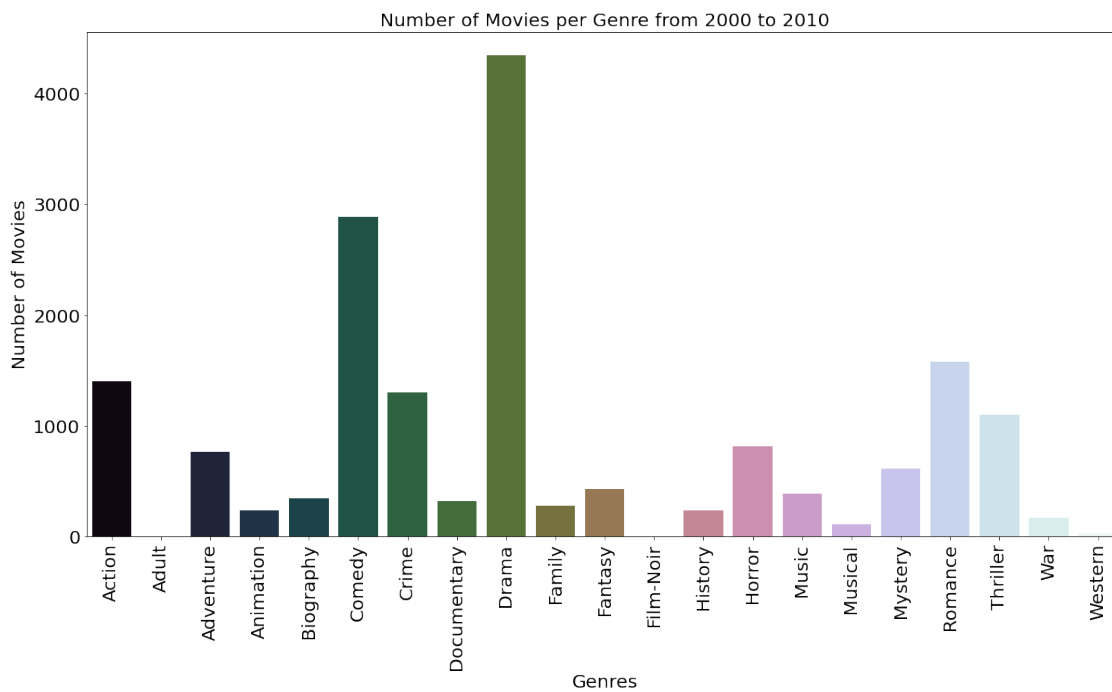
7392	0.0	0.0	0.0	0.0
26037	0.0	0.0	0.0	0.0
15978	0.0	0.0	0.0	0.0
26039	0.0	0.0	0.0	0.0
17349	0.0	0.0	0.0	0.0
13129	1.0	0.0	0.0	0.0
1070	0.0	0.0	0.0	0.0
631	0.0	0.0	0.0	1.0

[10 rows x 30 columns]



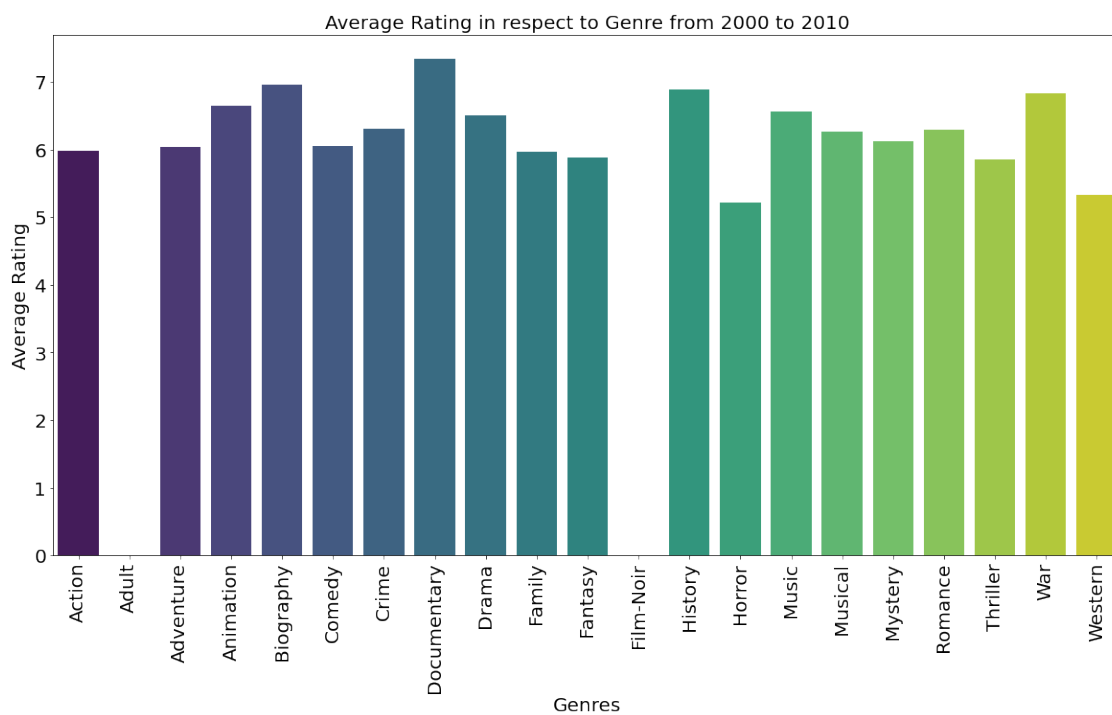
1.0.35 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 2000 AND 2010

	Genre	BinaryValue
0	Action	1401.769839
3	Adult	0.000000
4	Adventure	766.914695
5	Animation	234.399905
6	Biography	346.431967
7	Comedy	2884.683498
8	Crime	1303.034357
10	Documentary	320.639906
11	Drama	4339.394622
12	Family	279.504808
13	Fantasy	426.565635
14	Film-Noir	0.000000
15	History	235.995736
16	Horror	812.304263
17	Music	387.604396
18	Musical	110.113252
19	Mystery	616.855450
20	Romance	1580.187781
21	Thriller	1098.360065
22	War	165.506481
23	Western	24.699615



1.0.36 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 2000 AND 2010

	Genre	Rating
0	Action	5.986105
1	Adult	NaN
2	Adventure	6.036136
3	Animation	6.644026
4	Biography	6.963859
5	Comedy	6.052013
6	Crime	6.302495
7	Documentary	7.333333
8	Drama	6.506843
9	Family	5.971293
10	Fantasy	5.886840
11	Film-Noir	NaN
12	History	6.884724
13	Horror	5.212976
14	Music	6.554364
15	Musical	6.269307
16	Mystery	6.117269
17	Romance	6.287364
18	Thriller	5.857916
19	War	6.828031
20	Western	5.321493



INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 2000 AND 2010 IN A DATASET

	Year	Rating
0	2020-2023	6.154408
1	2010-2020	6.120038
2	2000-2010	6.226358

1.0.37 TOP 10 MOVIES BETWEEN 1990-2000

	primaryTitle	isAdult	startYear	\
27325	The Shawshank Redemption	0.0	1994.0	
19372	Ramayana: The Legend of Prince Rama	0.0	1993.0	
1400	Aguner Poroshmoni	0.0	1994.0	
20607	Schindler's List	0.0	1993.0	
17522	Om	0.0	1995.0	
20422	Sandesham	0.0	1991.0	
7057	Dipu Number 2	0.0	1996.0	
19068	Pulp Fiction	0.0	1994.0	
1054	A: Film by Upendra	0.0	1998.0	
29510	Upendra	0.0	1999.0	

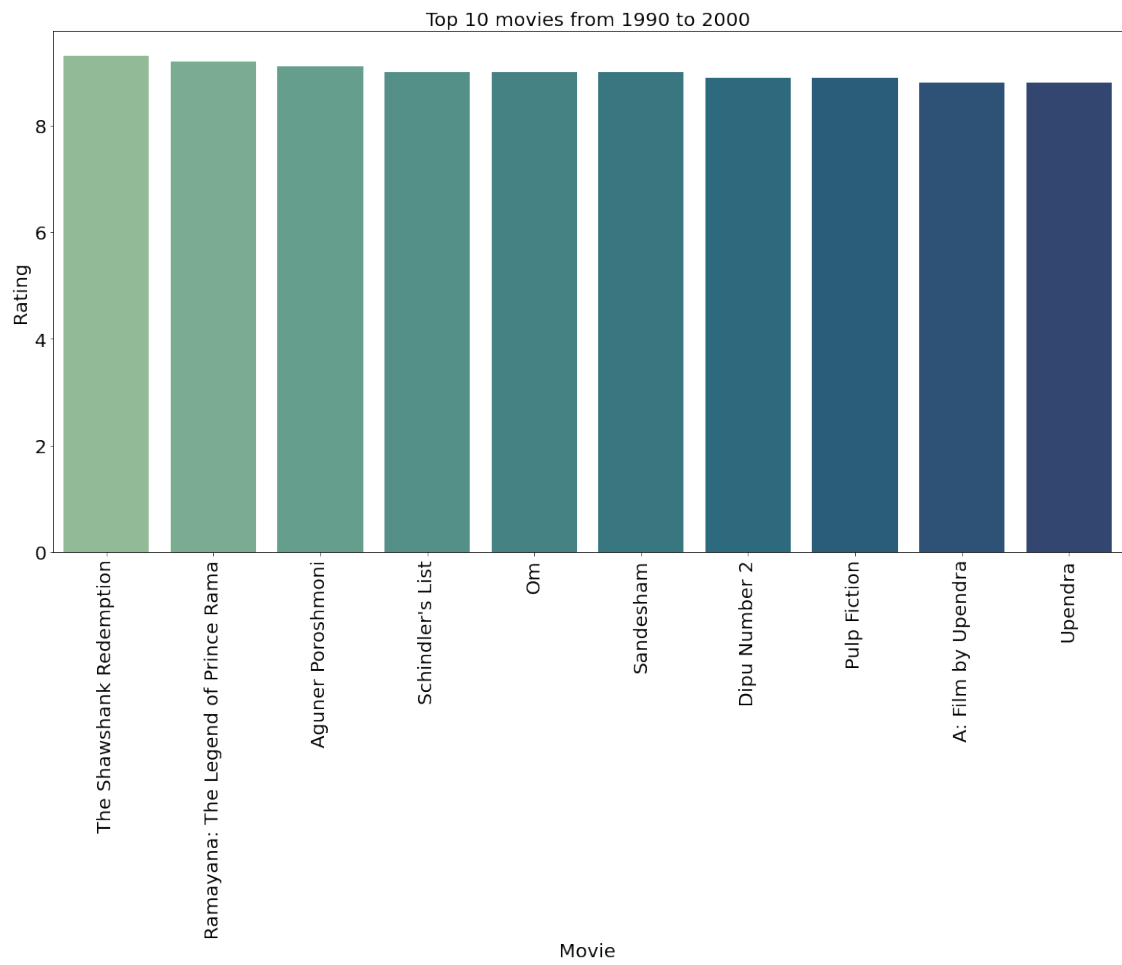
	runtimeMinutes	averageRating	numVotes	Actor	Actress	Director	\
27325	142.0	9.3	2785117.0	0.753425	0.109589	0.246575	
19372	135.0	9.2	12604.0	0.478261	0.304348	0.347826	
1400	123.0	9.1	3342.0	0.615385	0.153846	0.269231	
20607	195.0	9.0	1401229.0	0.641509	0.213836	0.308176	
17522	150.0	9.0	3732.0	0.608696	0.173913	0.260870	
20422	138.0	9.0	4834.0	0.750000	0.250000	0.250000	
7057	154.0	8.9	2506.0	1.000000	0.000000	0.000000	
19068	154.0	8.9	2136763.0	0.606383	0.212766	0.308511	
1054	150.0	8.8	2237.0	0.250000	0.750000	0.000000	
29510	138.0	8.8	3320.0	0.272727	0.454545	0.454545	

	Action	...	History	Horror	Music	Musical	Mystery	Romance	\
27325	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
19372	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1400	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
20607	0.0	...	1.0	0.0	0.0	0.0	0.0	0.0	
17522	1.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
20422	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
7057	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
19068	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
1054	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	
29510	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	

	Thriller	War	Western	Fantasy
27325	0.0	0.0	0.0	0.0

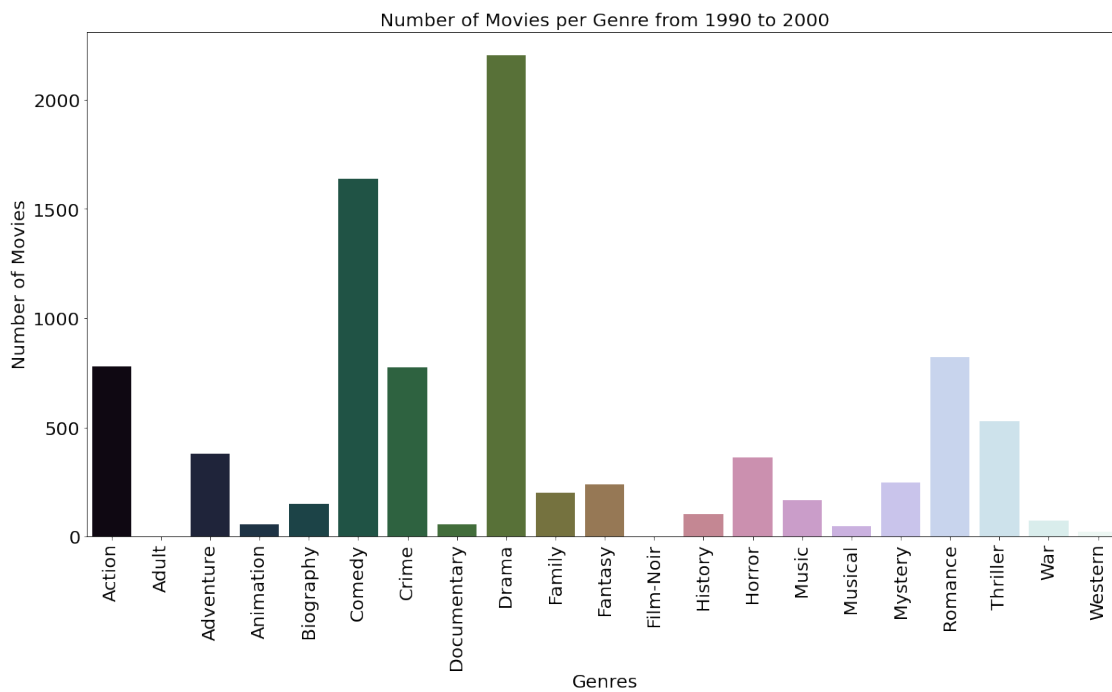
19372	0.0	0.0	0.0	0.0
1400	0.0	1.0	0.0	0.0
20607	0.0	0.0	0.0	0.0
17522	0.0	0.0	0.0	0.0
20422	0.0	0.0	0.0	0.0
7057	0.0	0.0	0.0	0.0
19068	0.0	0.0	0.0	0.0
1054	0.0	0.0	0.0	0.0
29510	1.0	0.0	0.0	0.0

[10 rows x 30 columns]



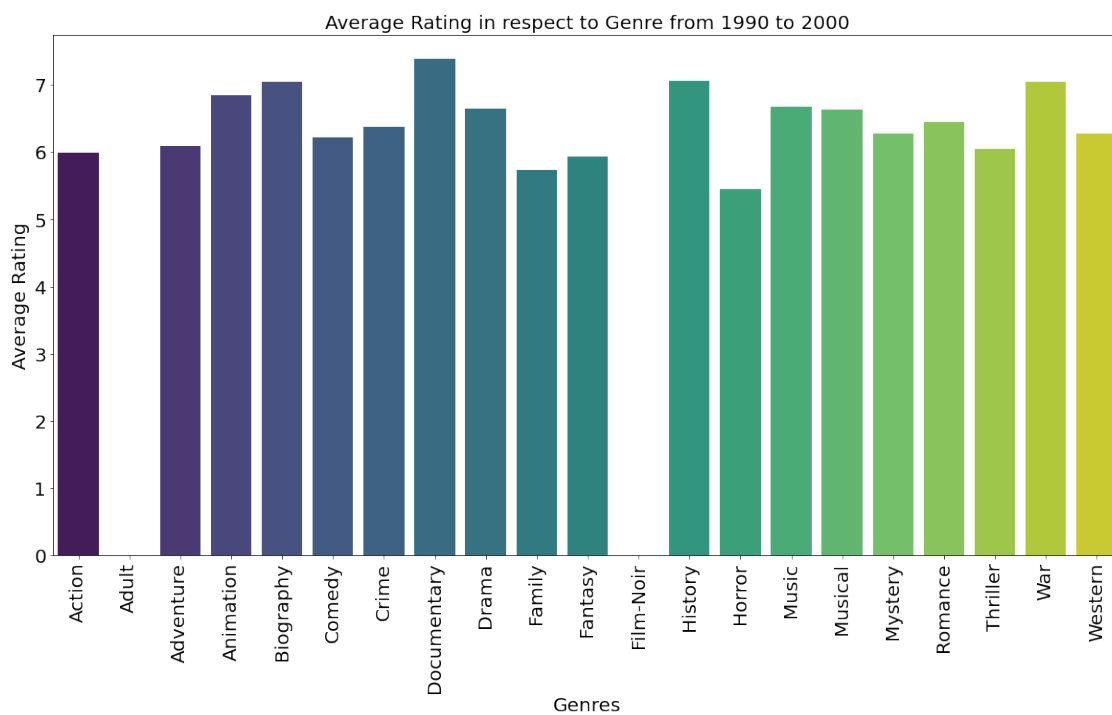
1.0.38 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 1990 AND 2000

	Genre	BinaryValue
0	Action	777.885650
3	Adult	0.265306
4	Adventure	380.742074
5	Animation	57.065223
6	Biography	150.916452
7	Comedy	1637.550476
8	Crime	772.893656
10	Documentary	55.898201
11	Drama	2201.221758
12	Family	199.808138
13	Fantasy	240.641571
14	Film-Noir	0.000000
15	History	102.516375
16	Horror	361.822492
17	Music	167.347732
18	Musical	47.568854
19	Mystery	245.333988
20	Romance	819.471519
21	Thriller	526.123359
22	War	73.284078
23	Western	22.100917



1.0.39 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 1990 AND 2000

	Genre	Rating
0	Action	5.983898
1	Adult	NaN
2	Adventure	6.089848
3	Animation	6.848148
4	Biography	7.051034
5	Comedy	6.213459
6	Crime	6.372983
7	Documentary	7.381481
8	Drama	6.640159
9	Family	5.737127
10	Fantasy	5.933599
11	Film-Noir	NaN
12	History	7.066725
13	Horror	5.445711
14	Music	6.669043
15	Musical	6.638610
16	Mystery	6.275563
17	Romance	6.442097
18	Thriller	6.049570
19	War	7.046766
20	Western	6.277778



INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 1990 AND 2000 IN A DATASET

	Year	Rating
0	2020-2023	6.154408
1	2010-2020	6.120038
2	2000-2010	6.226358
3	1990-2000	6.311388

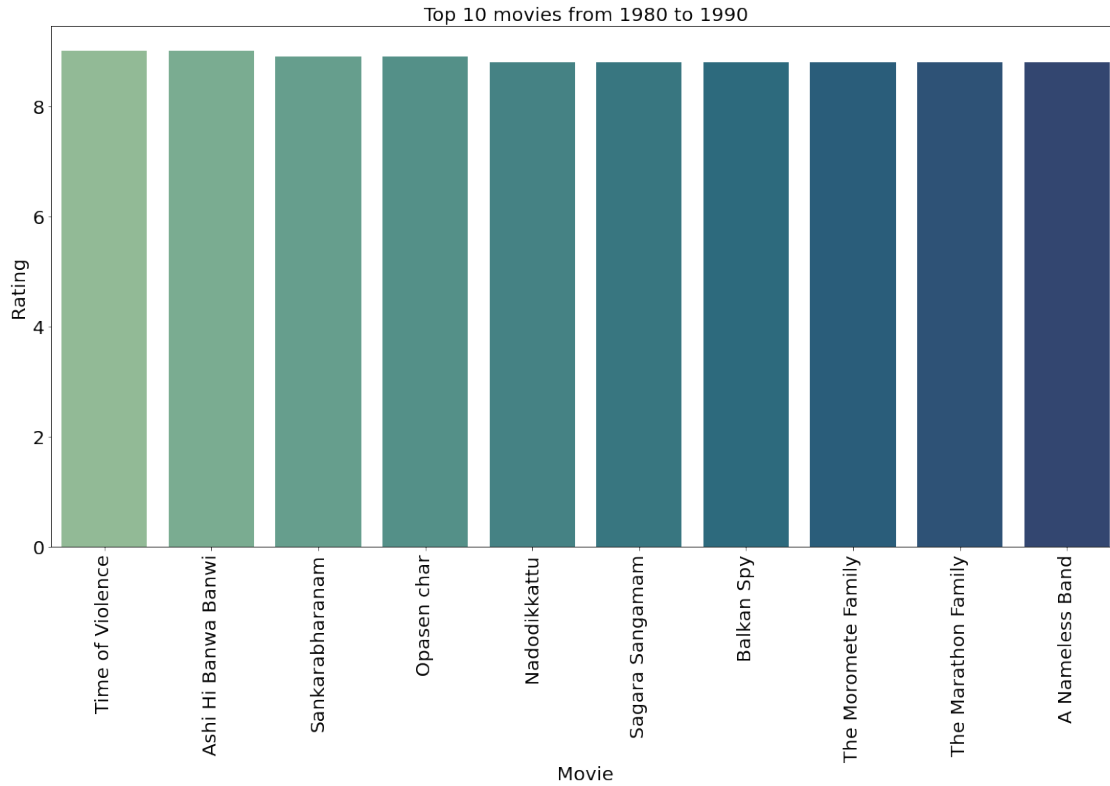
1.0.40 TOP 10 MOVIES BETWEEN 1980-1990

	primaryTitle	isAdult	startYear	runtimeMinutes	averageRating	\
28626	Time of Violence	0.0	1988.0	288.0	9.0	
2438	Ashi Hi Banwa Banwi	0.0	1988.0	137.0	9.0	
20429	Sankarabharanam	0.0	1980.0	143.0	8.9	
17742	Opasen char	0.0	1984.0	90.0	8.9	
16660	Nadodikkattu	0.0	1987.0	158.0	8.8	
20316	Sagara Sangamam	0.0	1983.0	160.0	8.8	
2891	Balkan Spy	0.0	1984.0	95.0	8.8	
26347	The Moromete Family	0.0	1987.0	142.0	8.8	
26191	The Marathon Family	0.0	1982.0	92.0	8.8	
829	A Nameless Band	0.0	1981.0	112.0	8.8	

	numVotes	Actor	Actress	Director	Action	...	History	Horror	\
28626	2344.0	0.697674	0.255814	0.069767	0.0	...	0.0	0.0	
2438	1860.0	0.250000	0.250000	0.500000	0.0	...	0.0	0.0	
20429	2405.0	0.583333	0.166667	0.333333	0.0	...	0.0	0.0	
17742	1876.0	0.548387	0.387097	0.096774	0.0	...	0.0	0.0	
16660	5334.0	1.000000	0.000000	0.000000	0.0	...	0.0	0.0	
20316	3493.0	0.500000	0.222222	0.388889	0.0	...	0.0	0.0	
2891	12040.0	0.705882	0.235294	0.176471	0.0	...	0.0	0.0	
26347	4118.0	0.720000	0.280000	0.000000	0.0	...	0.0	0.0	
26191	16503.0	0.807692	0.115385	0.115385	0.0	...	0.0	0.0	
829	2258.0	0.592593	0.333333	0.074074	0.0	...	0.0	0.0	

	Music	Musical	Mystery	Romance	Thriller	War	Western	Fantasy
28626	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2438	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20429	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
17742	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
16660	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20316	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26347	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26191	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
829	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

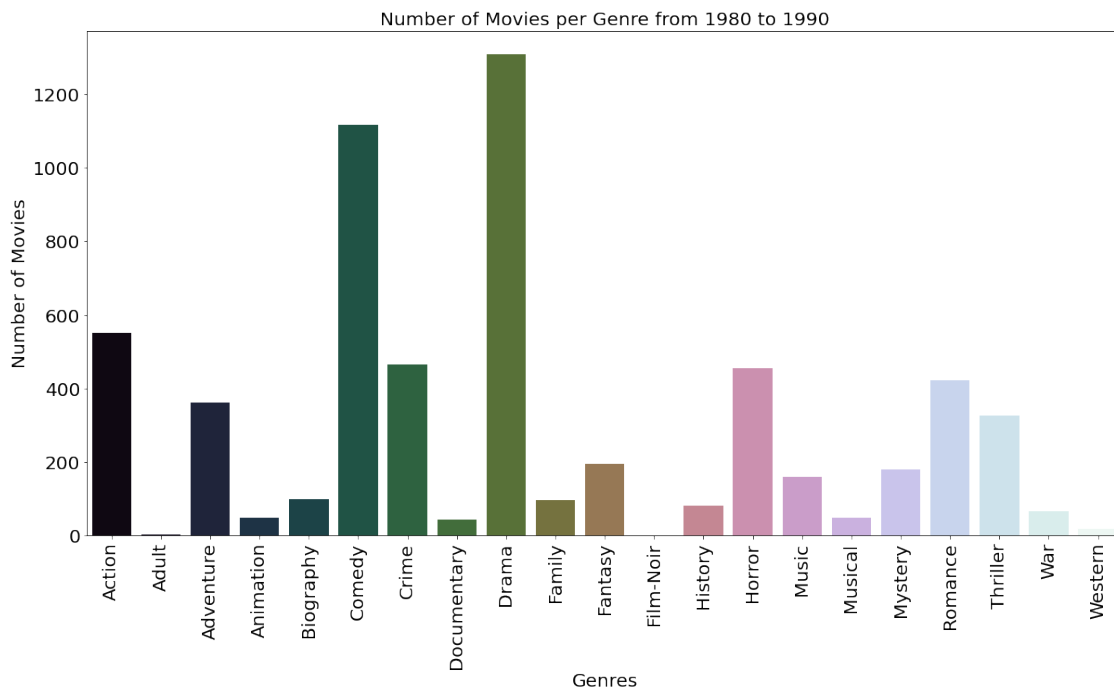
[10 rows x 30 columns]



1.0.41 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 1980 AND 1990

	Genre	BinaryValue
0	Action	552.042900
3	Adult	3.000000
4	Adventure	361.938507
5	Animation	49.288514
6	Biography	98.223769
7	Comedy	1115.589057
8	Crime	465.287227
10	Documentary	42.706938
11	Drama	1306.984406
12	Family	96.236858
13	Fantasy	194.720497
14	Film-Noir	0.000000
15	History	81.531210
16	Horror	455.614398
17	Music	159.465427
18	Musical	47.762845
19	Mystery	180.541078
20	Romance	420.807080

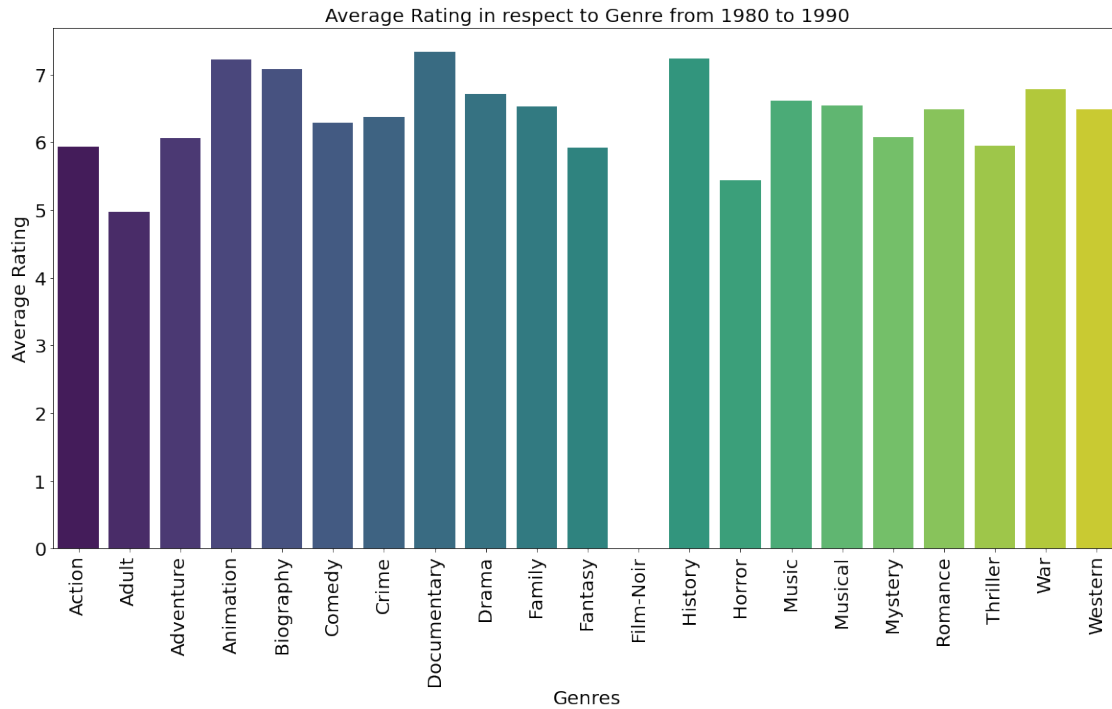
21	Thriller	325.263233
22	War	67.202822
23	Western	17.566667



1.0.42 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 1980 AND 1990

	Genre	Rating
0	Action	5.932628
1	Adult	4.966667
2	Adventure	6.063473
3	Animation	7.227083
4	Biography	7.082292
5	Comedy	6.281330
6	Crime	6.367954
7	Documentary	7.328571
8	Drama	6.718944
9	Family	6.527895
10	Fantasy	5.922176
11	Film-Noir	NaN
12	History	7.235000
13	Horror	5.442321
14	Music	6.619896
15	Musical	6.536957
16	Mystery	6.073714

17	Romance	6.486362
18	Thriller	5.953149
19	War	6.780303
20	Western	6.482353



INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 1980 AND 1990 IN A DATASET

	Year	Rating
0	2020-2023	6.154408
1	2010-2020	6.120038
2	2000-2010	6.226358
3	1990-2000	6.311388
4	1980-1990	6.299846

1.0.43 TOP 10 MOVIES BETWEEN 1970-1980

	primaryTitle	isAdult	startYear	runtimeMinutes	\
24008	The Chaos Class	0.0	1975.0	87.0	
25026	The Godfather	0.0	1972.0	175.0	
16662	Nagara Haavu	0.0	1972.0	184.0	
25027	The Godfather Part II	0.0	1974.0	202.0	
28838	Tosun Pasa	0.0	1976.0	90.0	
24010	The Chaos Class Failed the Class	0.0	1975.0	91.0	
16433	My Dear Brother	0.0	1973.0	85.0	

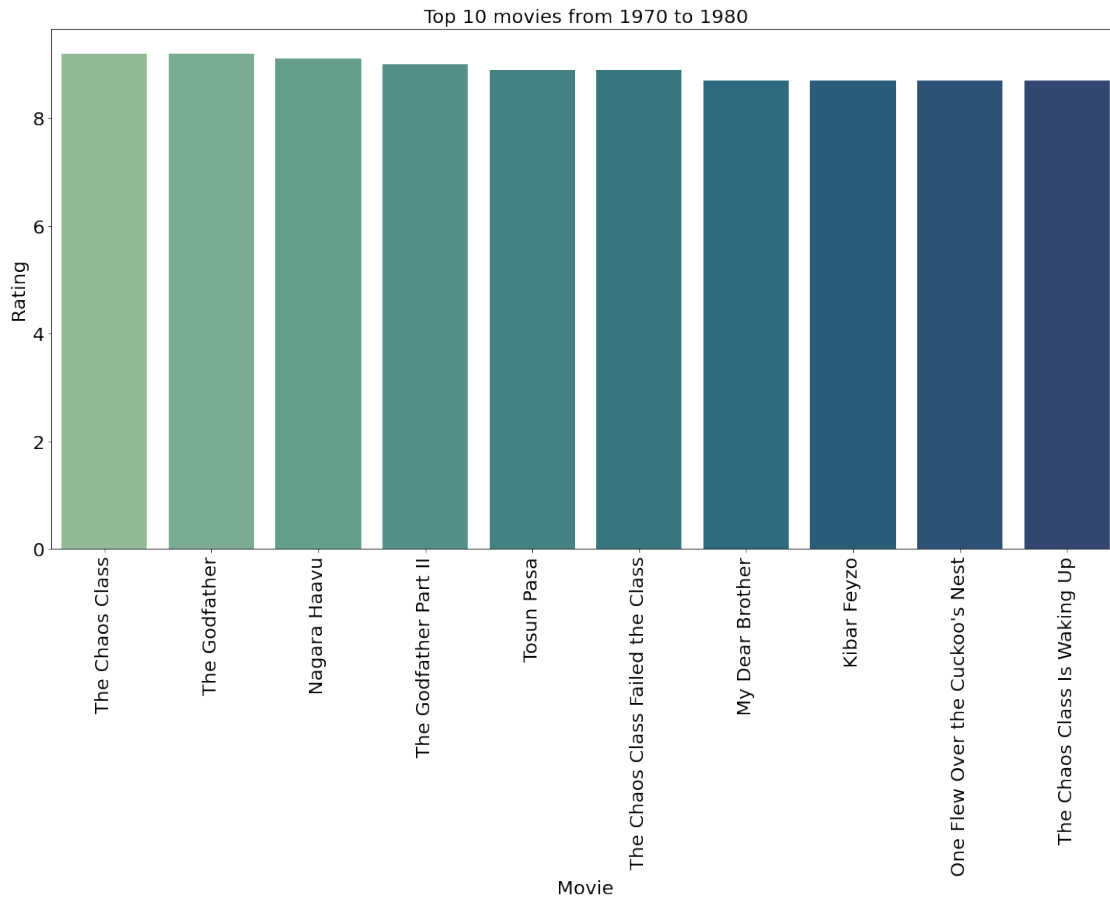
13090	Kibar Feyzo	0.0	1978.0	83.0
17633	One Flew Over the Cuckoo's Nest	0.0	1975.0	133.0
24012	The Chaos Class Is Waking Up	0.0	1977.0	94.0

	averageRating	numVotes	Actor	Actress	Director	Action	...	\
24008	9.2	42052.0	0.888889	0.000000	0.222222	0.0	...	
25026	9.2	1939355.0	0.725490	0.156863	0.254902	0.0	...	
16662	9.1	1151.0	0.714286	0.285714	0.000000	0.0	...	
25027	9.0	1317944.0	0.674699	0.216867	0.240964	0.0	...	
28838	8.9	24078.0	0.545455	0.454545	0.181818	0.0	...	
24010	8.9	24116.0	0.777778	0.166667	0.166667	0.0	...	
16433	8.7	9936.0	0.666667	0.000000	0.333333	0.0	...	
13090	8.7	16914.0	0.611111	0.222222	0.166667	0.0	...	
17633	8.7	1039459.0	0.651163	0.139535	0.255814	0.0	...	
24012	8.7	20414.0	0.900000	0.050000	0.150000	0.0	...	

	History	Horror	Music	Musical	Mystery	Romance	Thriller	War	\
24008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16662	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	
25027	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28838	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16433	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13090	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17633	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	Western	Fantasy
24008	0.0	0.0
25026	0.0	0.0
16662	0.0	0.0
25027	0.0	0.0
28838	0.0	0.0
24010	0.0	0.0
16433	0.0	0.0
13090	0.0	0.0
17633	0.0	0.0
24012	0.0	0.0

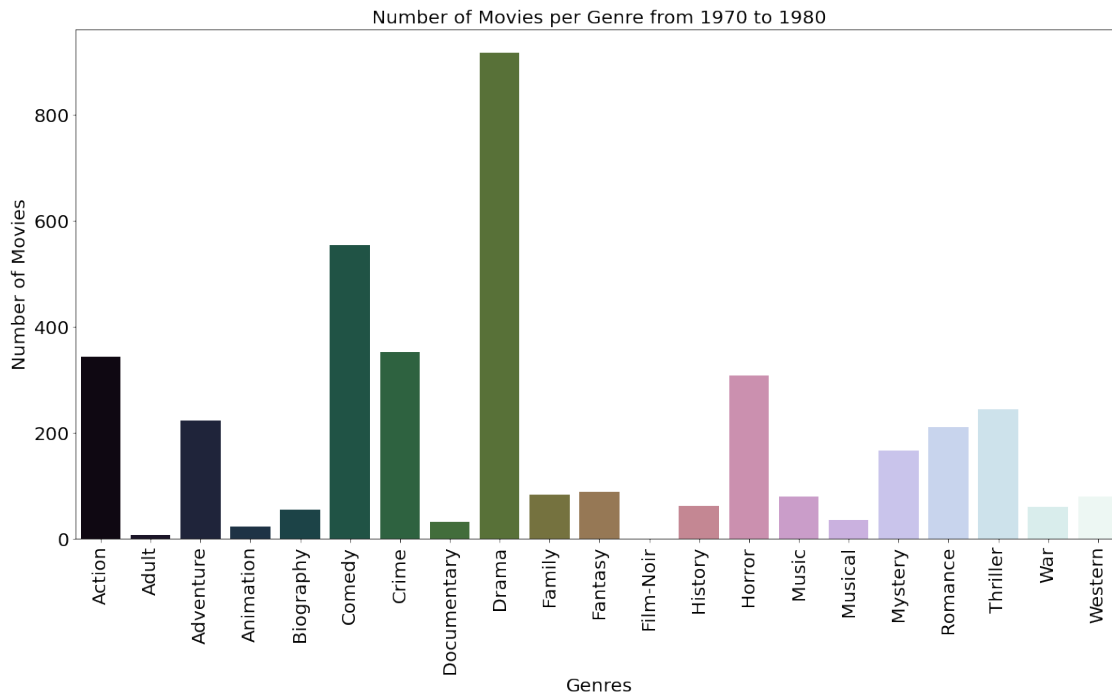
[10 rows x 30 columns]



1.0.44 NUMBER OF MOVIES RELEASED PER GENRE BETWEEN 1970 AND 1980

	Genre	BinaryValue
0	Action	344.055556
3	Adult	8.000000
4	Adventure	222.944444
5	Animation	23.000000
6	Biography	55.000000
7	Comedy	553.197987
8	Crime	351.625000
10	Documentary	32.000000
11	Drama	915.680556
12	Family	84.000000
13	Fantasy	89.000000
14	Film-Noir	0.000000
15	History	62.000000
16	Horror	308.625000
17	Music	80.111842

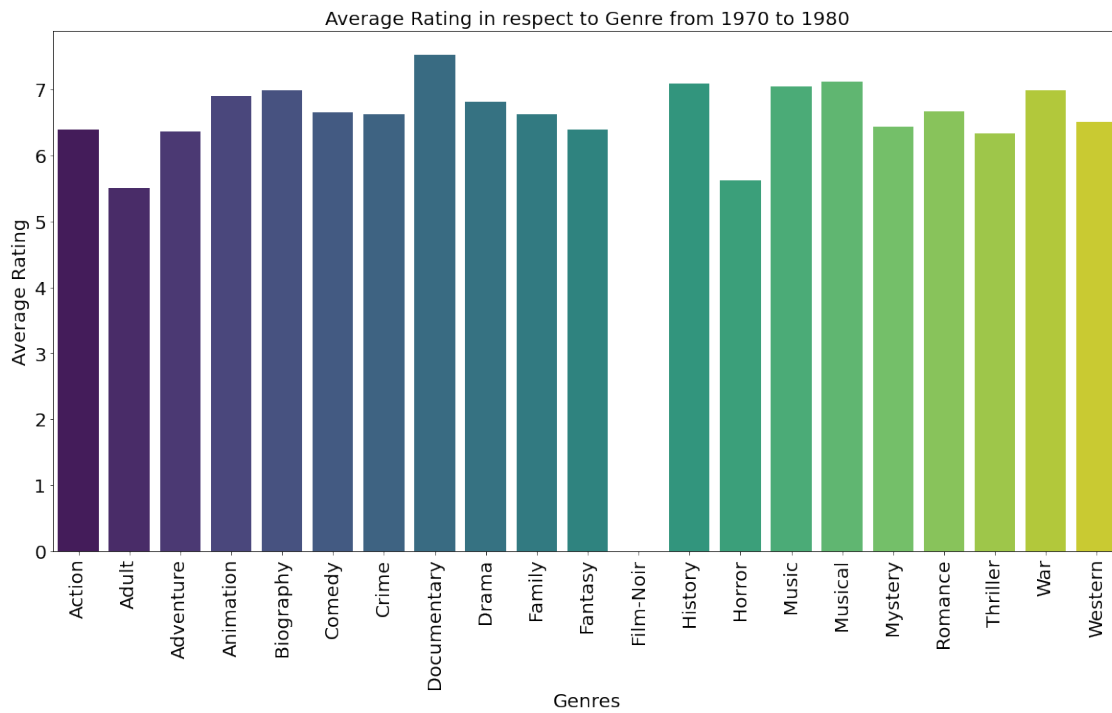
18	Musical	36.111842
19	Mystery	167.000000
20	Romance	210.263158
21	Thriller	244.000000
22	War	61.000000
23	Western	80.000000



1.0.45 AVERAGE RATINGS OF MOVIES RELEASED PER GENRE BETWEEN 1970 AND 1980

	Genre	Rating
0	Action	6.389066
1	Adult	5.500000
2	Adventure	6.362336
3	Animation	6.900000
4	Biography	6.989091
5	Comedy	6.651078
6	Crime	6.624153
7	Documentary	7.512500
8	Drama	6.805931
9	Family	6.621429
10	Fantasy	6.386517
11	Film-Noir	NaN
12	History	7.083871

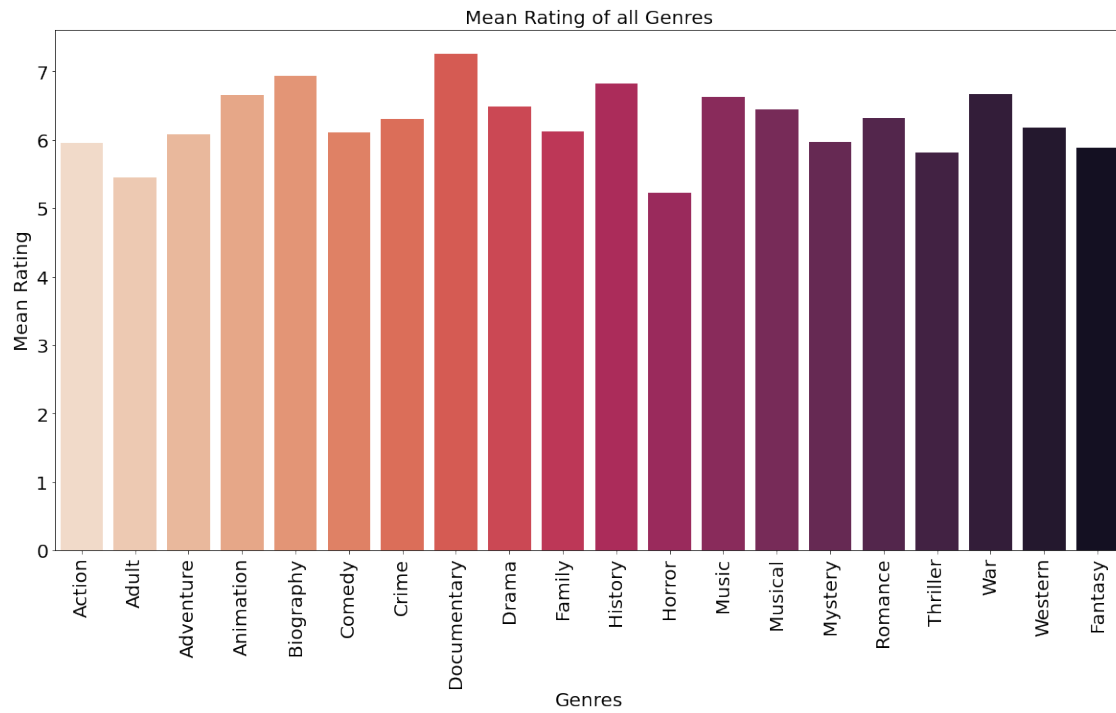
13	Horror	5.622777
14	Music	7.035443
15	Musical	7.117143
16	Mystery	6.432335
17	Romance	6.667925
18	Thriller	6.331967
19	War	6.983607
20	Western	6.502500



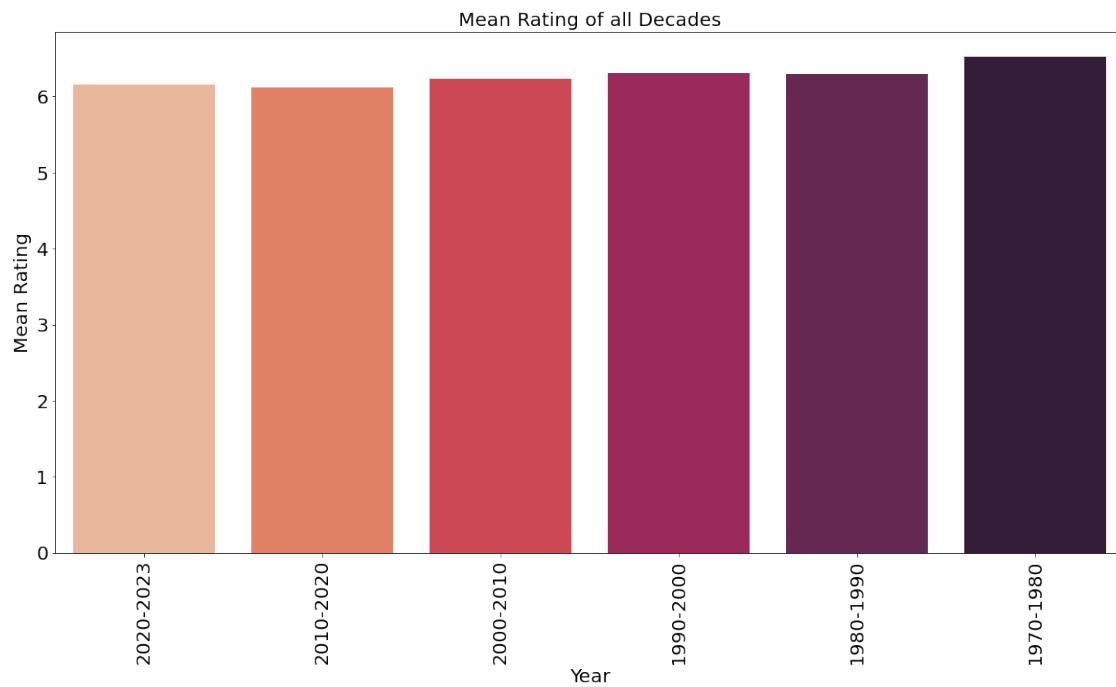
INSERTING AVERAGE RATINGS OF THE MOVIES BETWEEN 1970 AND 1980 IN A DATASET

	Year	Rating
0	2020-2023	6.154408
1	2010-2020	6.120038
2	2000-2010	6.226358
3	1990-2000	6.311388
4	1980-1990	6.299846
5	1970-1980	6.524498

1.0.46 AVERAGE RATINGS OF GENRES OF ALL THE MOVIES

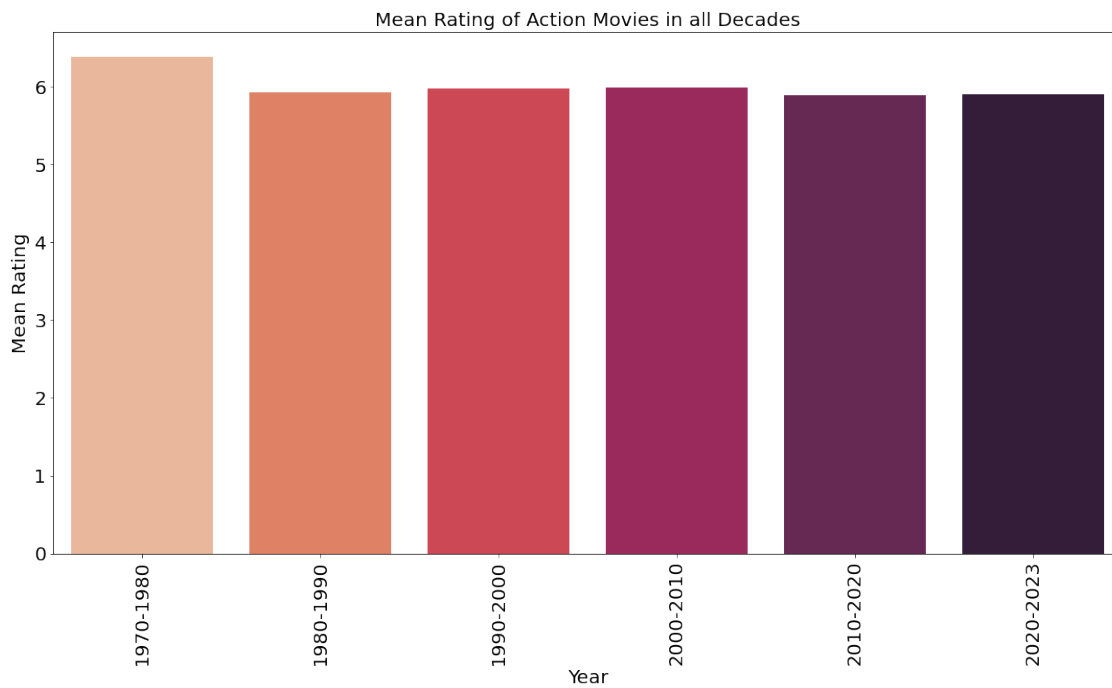


1.0.47 AVERAGE RATINGS OF MOVIES OF ALL DECADES



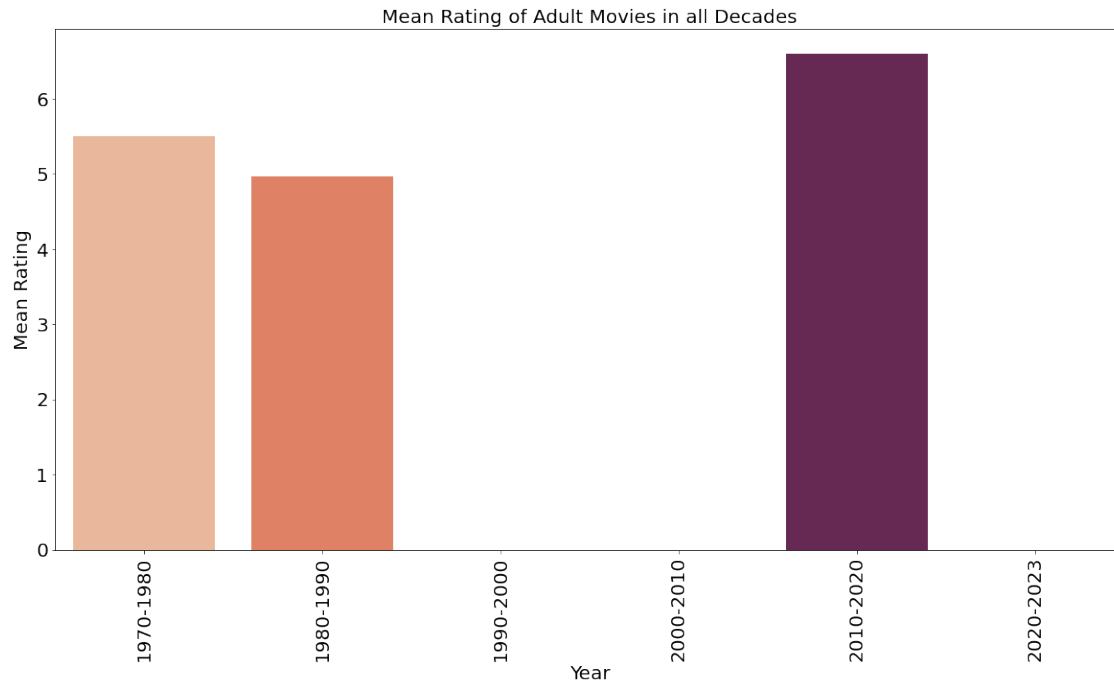
1.0.48 AVERAGE RATINGS OF ACTION MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.389066
1	1980-1990	5.932628
2	1990-2000	5.983898
3	2000-2010	5.986105
4	2010-2020	5.890283
5	2020-2023	5.902212



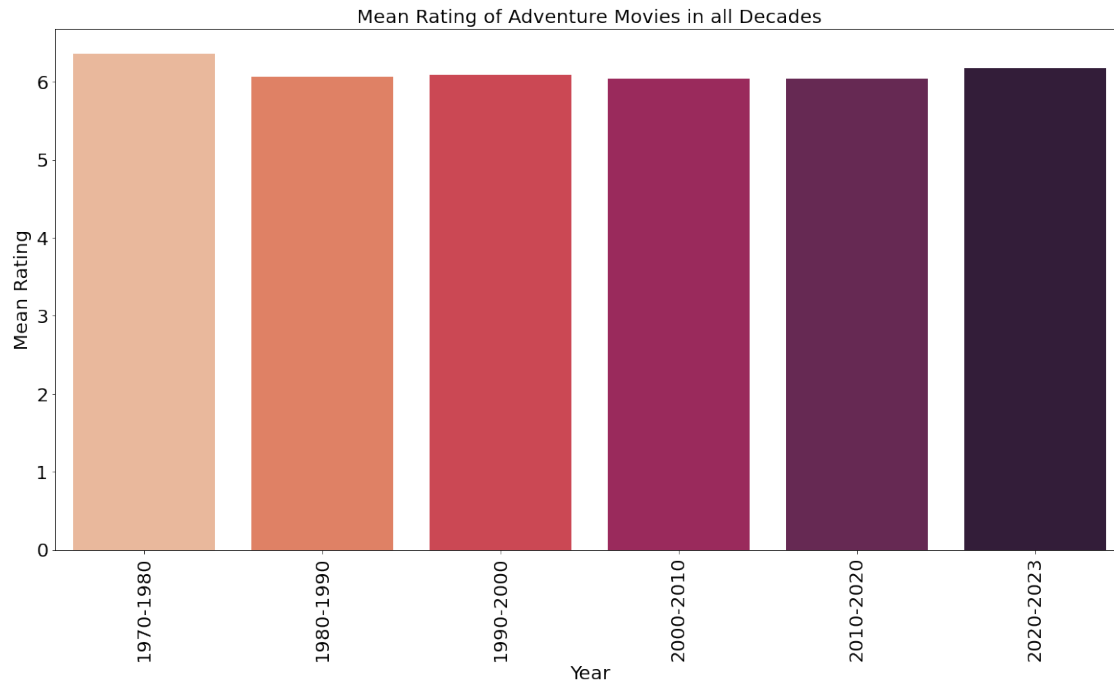
1.0.49 AVERAGE RATINGS OF ADULT MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	5.500000
1	1980-1990	4.966667
2	1990-2000	NaN
3	2000-2010	NaN
4	2010-2020	6.600000
5	2020-2023	NaN



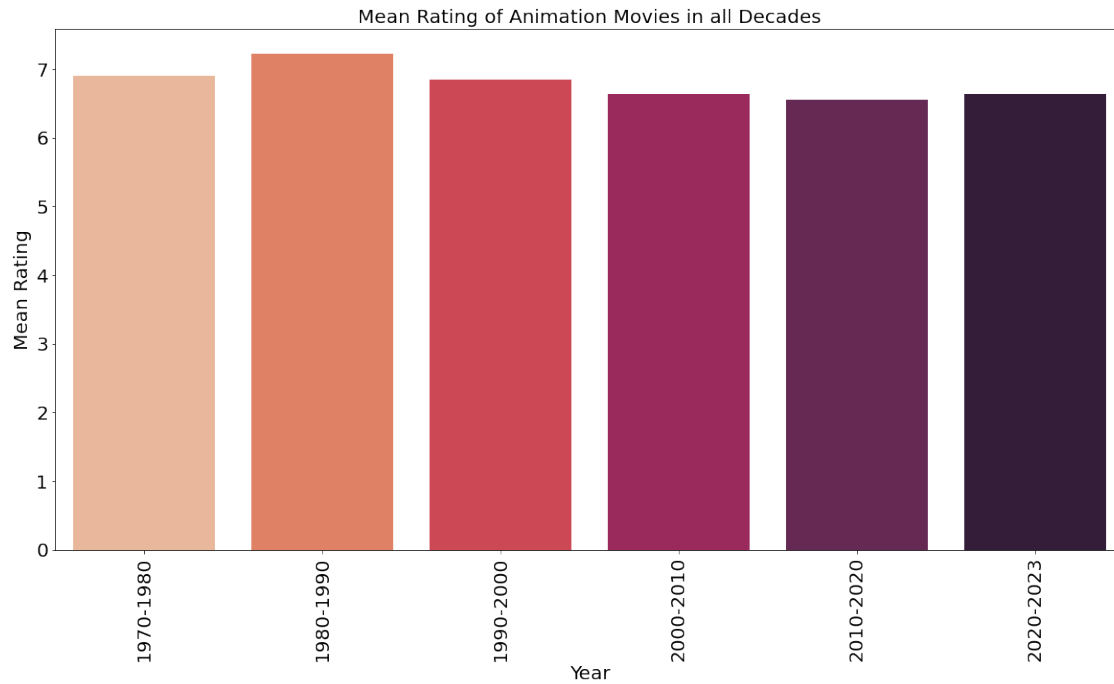
1.0.50 AVERAGE RATINGS OF ADVENTURE MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.362336
1	1980-1990	6.063473
2	1990-2000	6.089848
3	2000-2010	6.036136
4	2010-2020	6.038370
5	2020-2023	6.181020



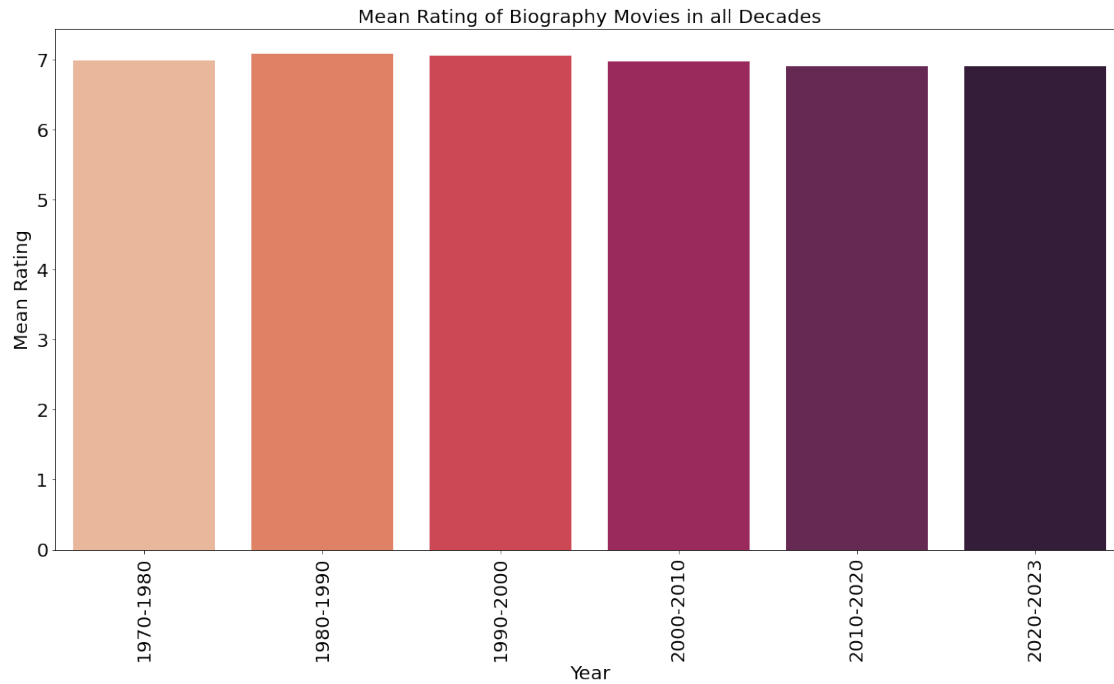
1.0.51 AVERAGE RATINGS OF ANIMATION MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.900000
1	1980-1990	7.227083
2	1990-2000	6.848148
3	2000-2010	6.644026
4	2010-2020	6.552470
5	2020-2023	6.644000



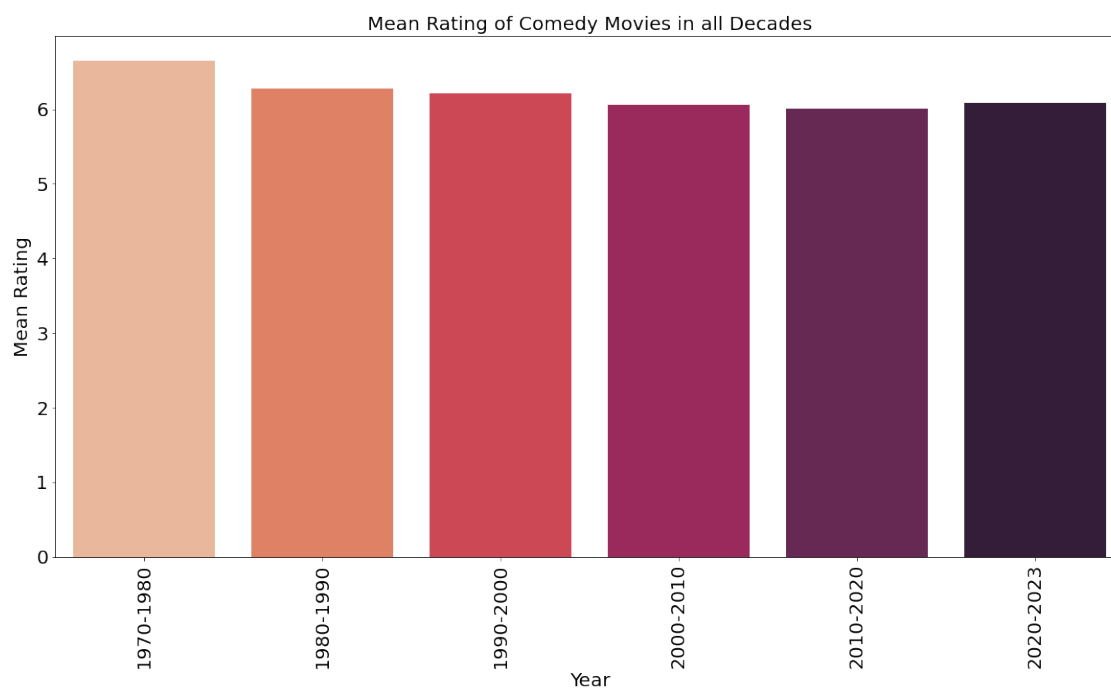
1.0.52 AVERAGE RATINGS OF BIOGRAPHY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.989091
1	1980-1990	7.082292
2	1990-2000	7.051034
3	2000-2010	6.963859
4	2010-2020	6.904625
5	2020-2023	6.897044



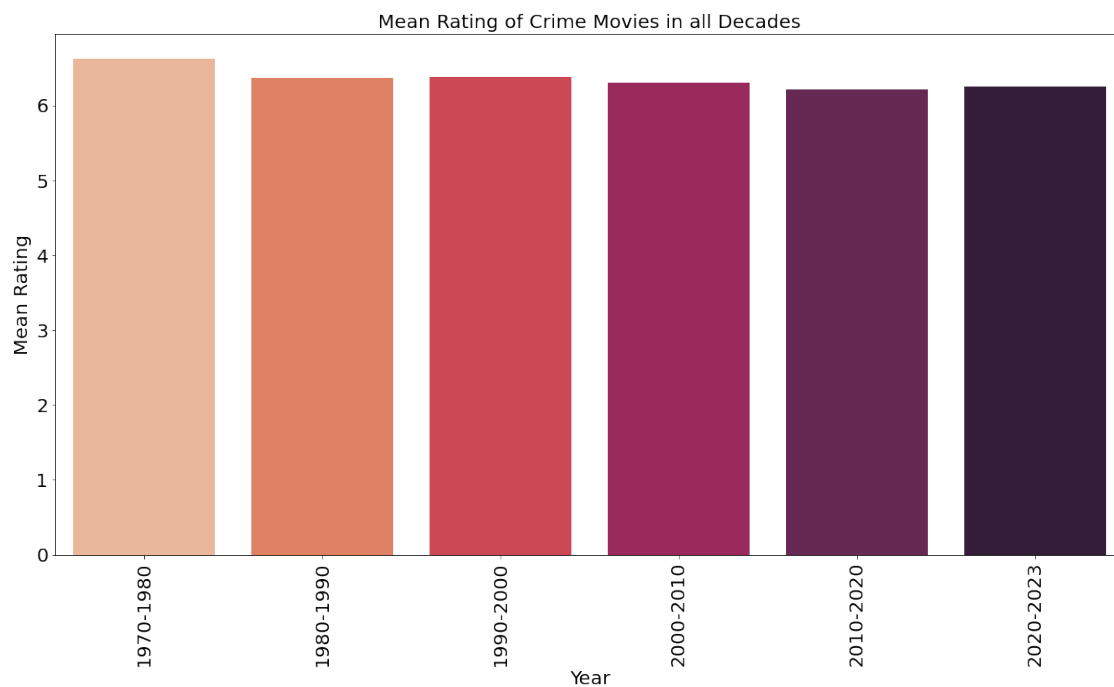
1.0.53 AVERAGE RATINGS OF COMEDY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.651078
1	1980-1990	6.281330
2	1990-2000	6.213459
3	2000-2010	6.052013
4	2010-2020	6.001697
5	2020-2023	6.086409



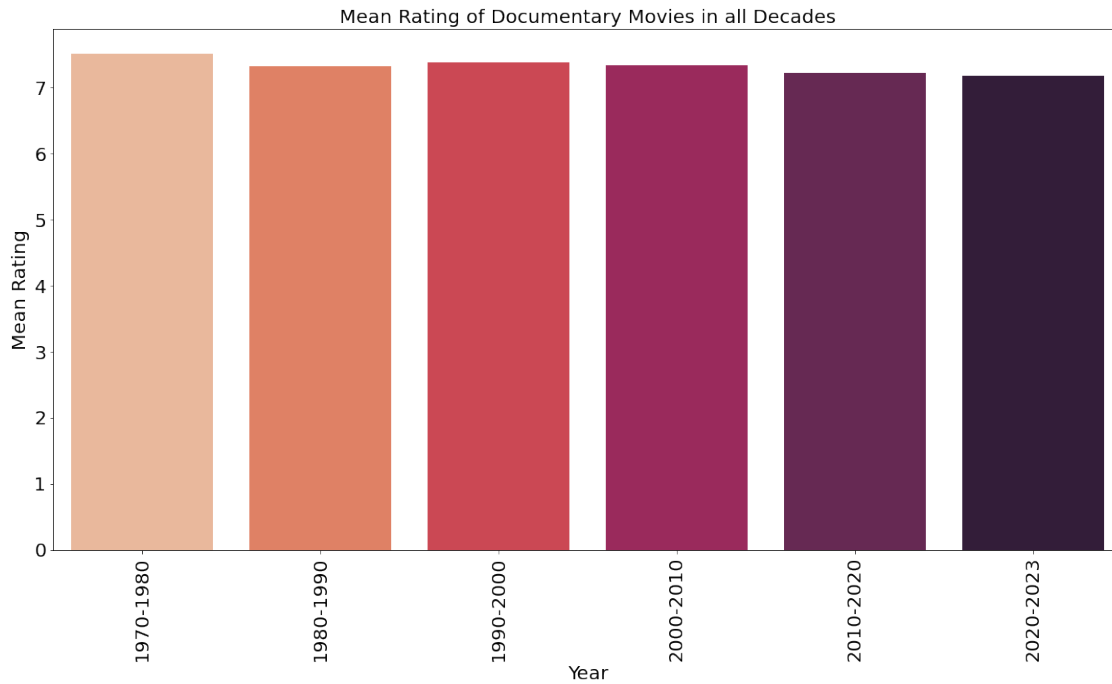
1.0.54 AVERAGE RATINGS OF CRIME MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.624153
1	1980-1990	6.367954
2	1990-2000	6.372983
3	2000-2010	6.302495
4	2010-2020	6.212560
5	2020-2023	6.249334



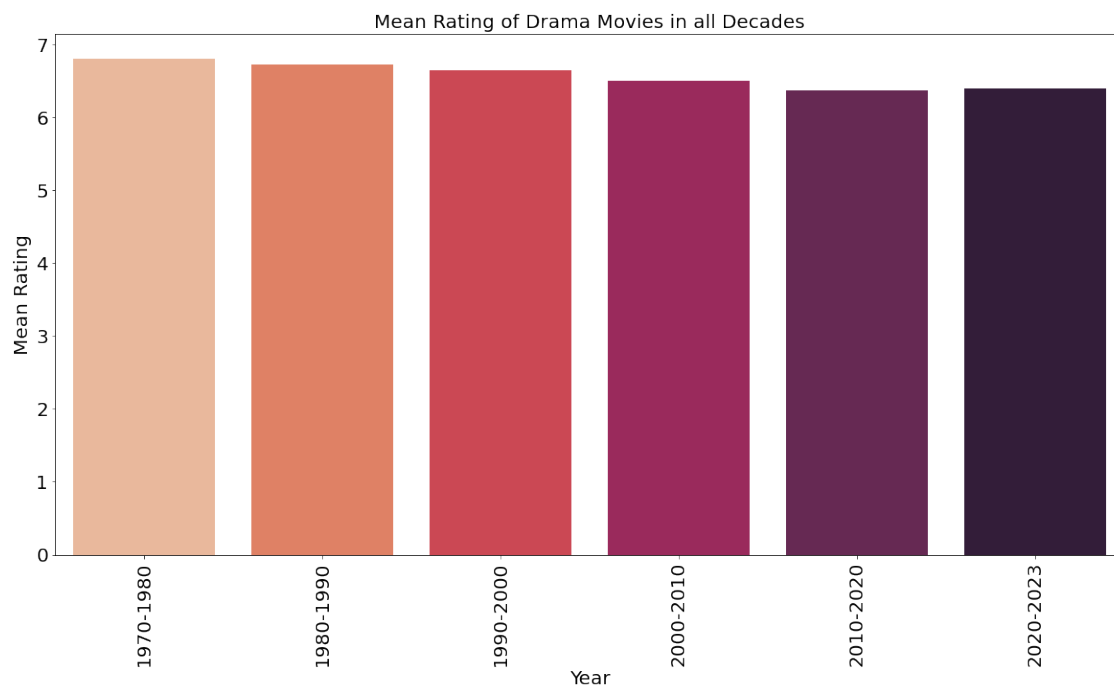
1.0.55 AVERAGE RATINGS OF DOCUMENTARY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	7.512500
1	1980-1990	7.328571
2	1990-2000	7.381481
3	2000-2010	7.333333
4	2010-2020	7.222354
5	2020-2023	7.182528



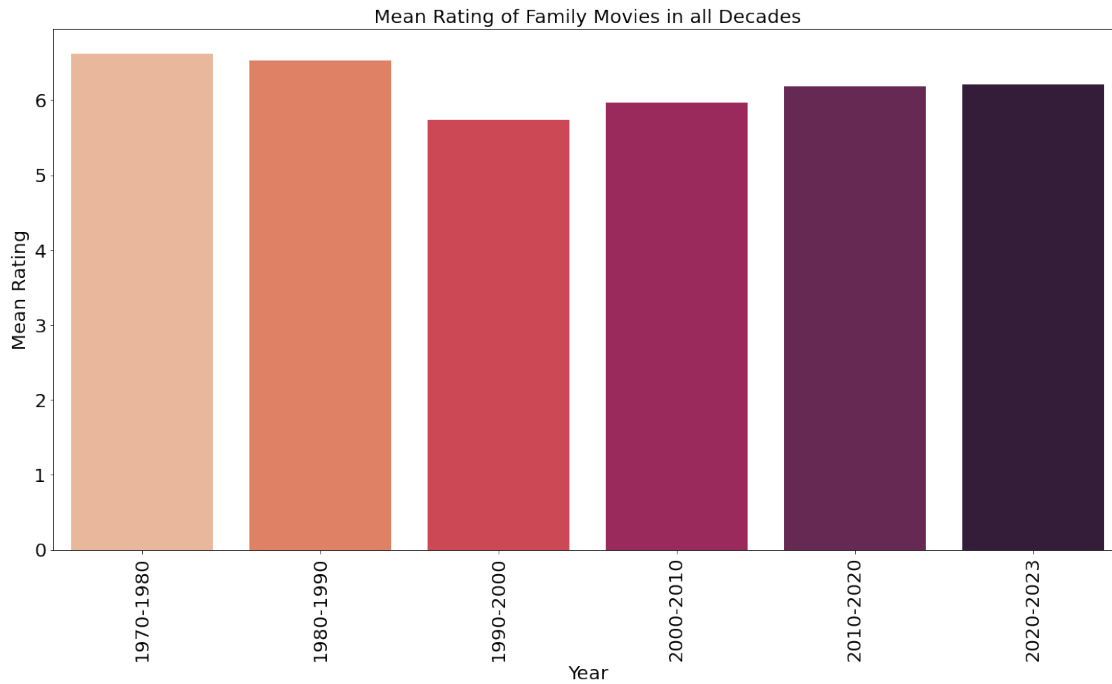
1.0.56 AVERAGE RATINGS OF DRAMA MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.805931
1	1980-1990	6.718944
2	1990-2000	6.640159
3	2000-2010	6.506843
4	2010-2020	6.364615
5	2020-2023	6.394142



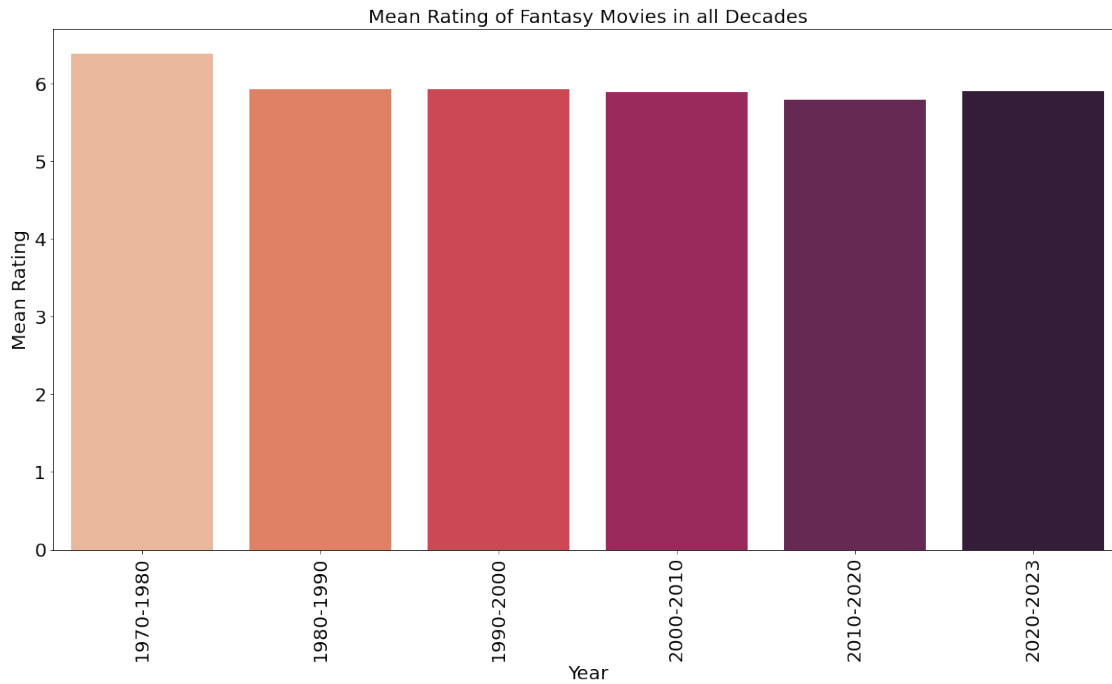
1.0.57 AVERAGE RATINGS OF FAMILY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.621429
1	1980-1990	6.527895
2	1990-2000	5.737127
3	2000-2010	5.971293
4	2010-2020	6.178997
5	2020-2023	6.204636



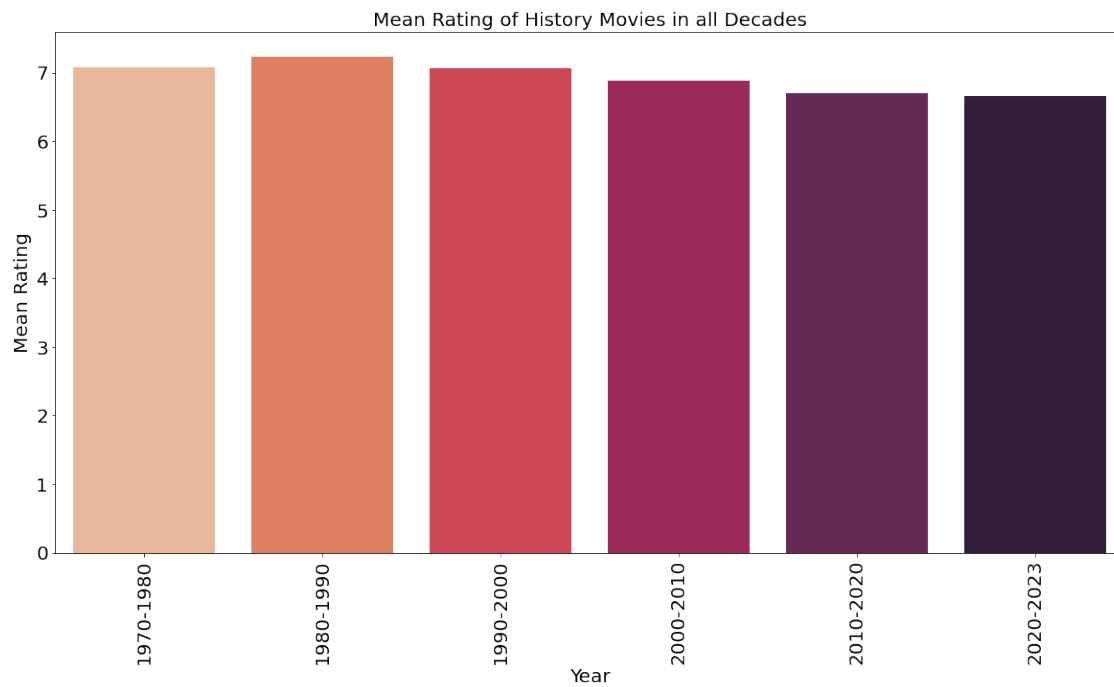
1.0.58 AVERAGE RATINGS OF FANTASY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.386517
1	1980-1990	5.922176
2	1990-2000	5.933599
3	2000-2010	5.886840
4	2010-2020	5.789350
5	2020-2023	5.906623



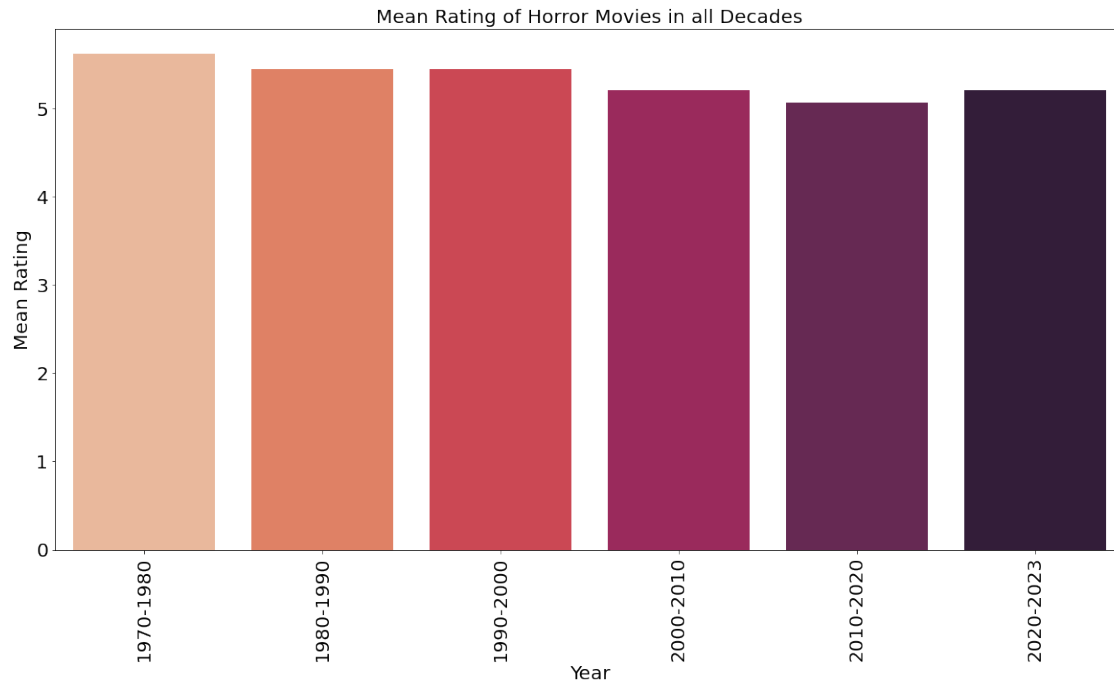
1.0.59 AVERAGE RATINGS OF HISTORY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	7.083871
1	1980-1990	7.235000
2	1990-2000	7.066725
3	2000-2010	6.884724
4	2010-2020	6.707339
5	2020-2023	6.654135



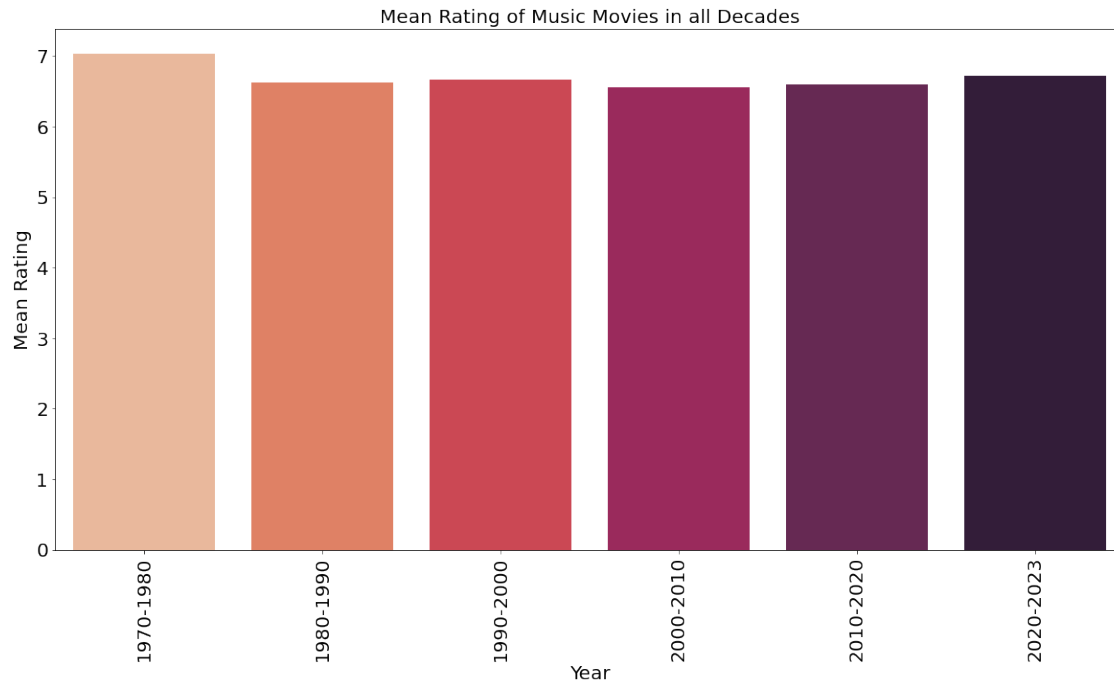
1.0.60 AVERAGE RATINGS OF HORROR MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	5.622777
1	1980-1990	5.442321
2	1990-2000	5.445711
3	2000-2010	5.212976
4	2010-2020	5.064153
5	2020-2023	5.204959



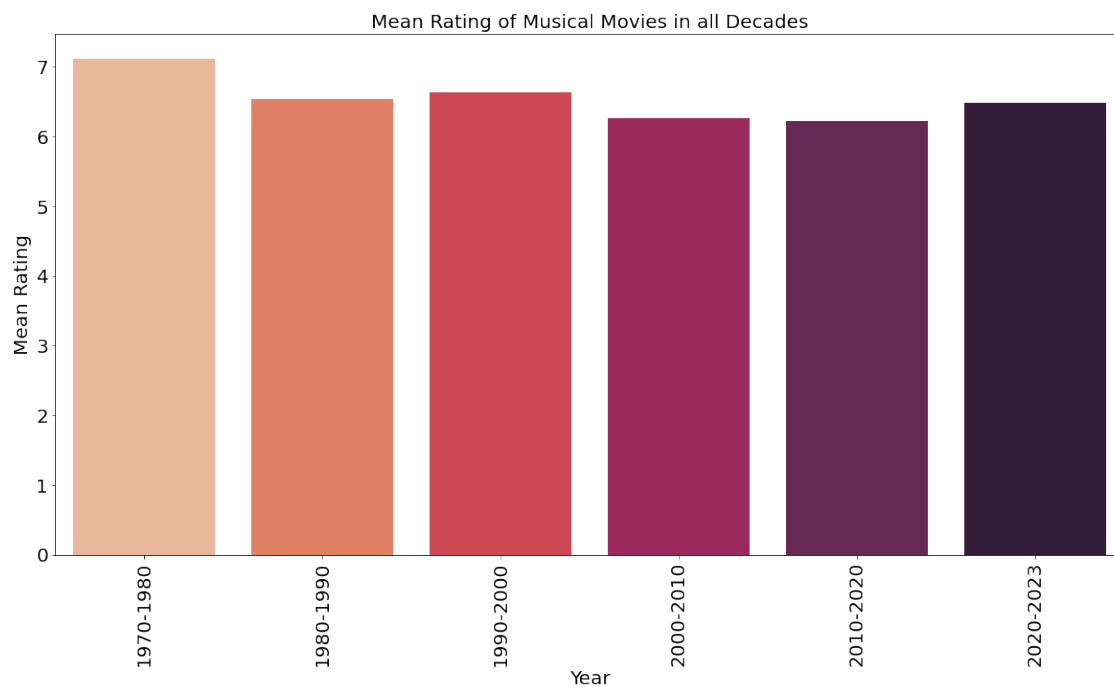
1.0.61 AVERAGE RATINGS OF MUSIC MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	7.035443
1	1980-1990	6.619896
2	1990-2000	6.669043
3	2000-2010	6.554364
4	2010-2020	6.592498
5	2020-2023	6.719259



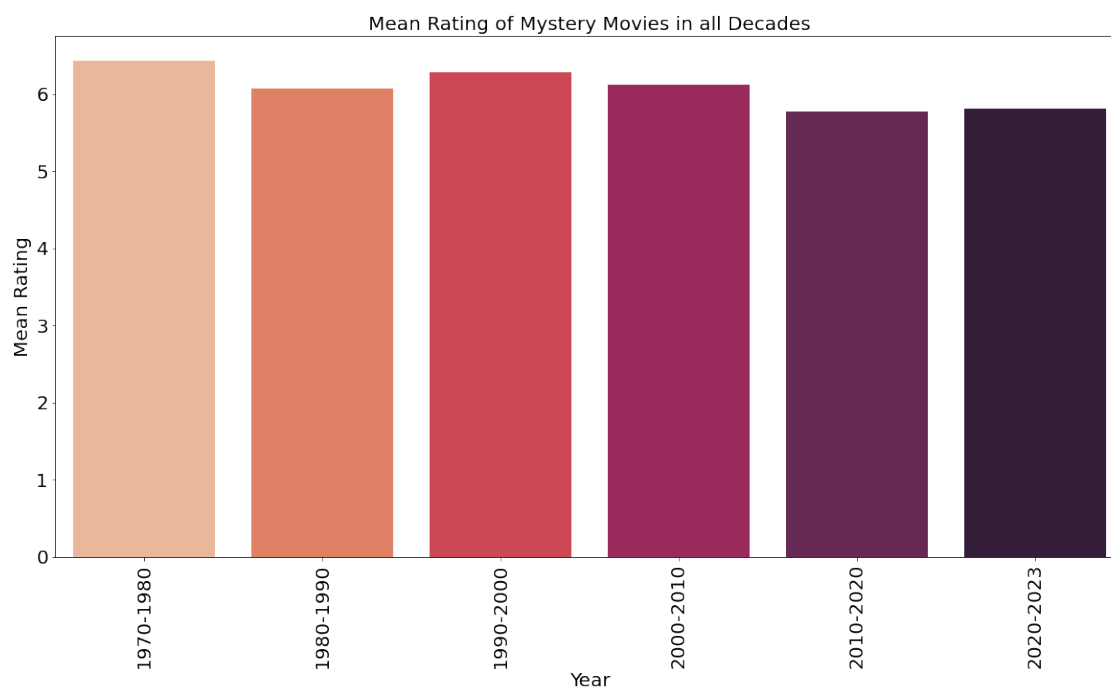
1.0.62 AVERAGE RATINGS OF MUSICAL MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	7.117143
1	1980-1990	6.536957
2	1990-2000	6.638610
3	2000-2010	6.269307
4	2010-2020	6.222368
5	2020-2023	6.481818



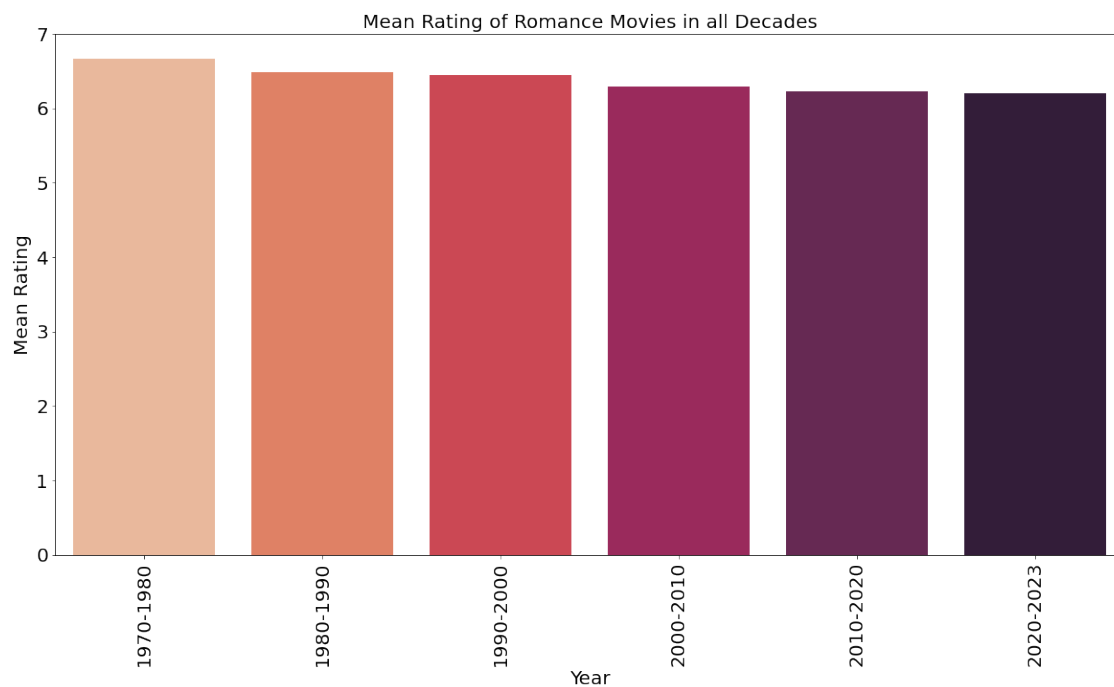
1.0.63 AVERAGE RATINGS OF MYSTERY MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.432335
1	1980-1990	6.073714
2	1990-2000	6.275563
3	2000-2010	6.117269
4	2010-2020	5.777696
5	2020-2023	5.810899



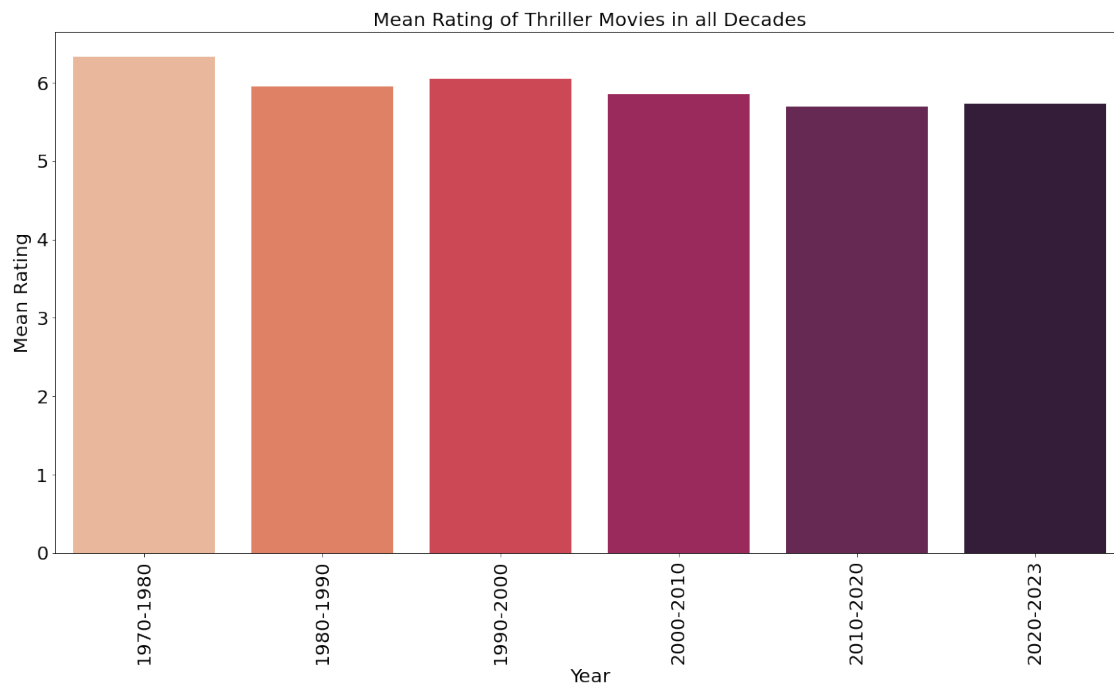
1.0.64 AVERAGE RATINGS OF ROMANCE MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.667925
1	1980-1990	6.486362
2	1990-2000	6.442097
3	2000-2010	6.287364
4	2010-2020	6.227940
5	2020-2023	6.201109



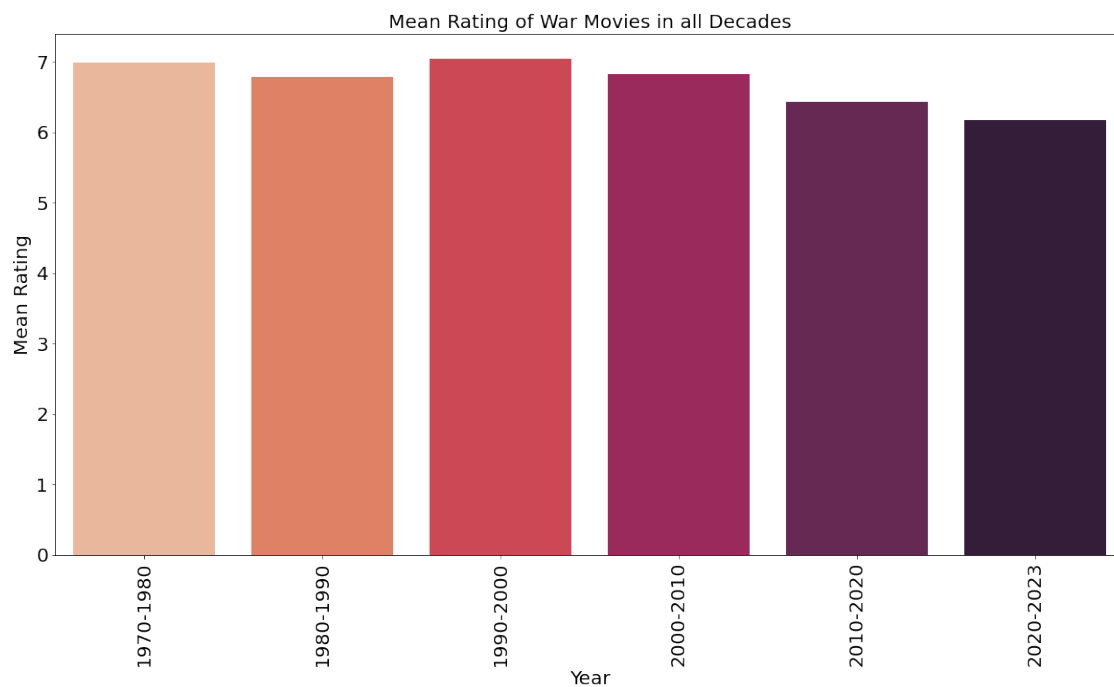
	Year	Rating
0	1970-1980	6.331967
1	1980-1990	5.953149
2	1990-2000	6.049570
3	2000-2010	5.857916
4	2010-2020	5.694310
5	2020-2023	5.727697

1.0.65 AVERAGE RATINGS OF THRILLER MOVIES OF ALL DECADES



1.0.66 AVERAGE RATINGS OF WAR MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.983607
1	1980-1990	6.780303
2	1990-2000	7.046766
3	2000-2010	6.828031
4	2010-2020	6.426000
5	2020-2023	6.174074



1.0.67 AVERAGE RATINGS OF WESTERN MOVIES OF ALL DECADES

	Year	Rating
0	1970-1980	6.502500
1	1980-1990	6.482353
2	1990-2000	6.277778
3	2000-2010	5.321493
4	2010-2020	5.962000
5	2020-2023	5.809091

