# netflix-bussiness-case

## May 27, 2024

```
[88]: import numpy as np
      import pandas as pd
      import seaborn as sns
      import matplotlib.pyplot as plt
[89]: from google.colab import drive
      drive.mount('/content/drive')
     Drive already mounted at /content/drive; to attempt to forcibly remount, call
     drive.mount("/content/drive", force_remount=True).
[90]: df=pd.read_csv('/content/netflix-case study.csv')
[91]: df.head(5)
[91]:
        show_id
                    type
                                           title
                                                         director
                           Dick Johnson Is Dead Kirsten Johnson
                   Movie
      0
             s1
      1
             s2
                 TV Show
                                   Blood & Water
             s3
                 TV Show
                                       Ganglands
                                                 Julien Leclercq
      3
                 TV Show
                          Jailbirds New Orleans
                                                              NaN
                 TV Show
                                    Kota Factory
                                                              NaN
             s5
                                                       cast
                                                                    country \
      0
                                                        {\tt NaN}
                                                             United States
         Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...
                                                            South Africa
      2
         Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...
                                                                      NaN
      3
                                                                        NaN
      4 Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...
                                                                    India
                 date_added release_year rating
                                                    duration \
         September 25, 2021
                                      2020 PG-13
                                                      90 min
         September 24, 2021
                                      2021
                                            TV-MA
                                                   2 Seasons
         September 24, 2021
                                      2021 TV-MA
                                                    1 Season
         September 24, 2021
                                      2021 TV-MA
                                                    1 Season
         September 24, 2021
                                      2021 TV-MA
                                                   2 Seasons
                                                  listed_in
      0
                                              Documentaries
```

```
2 Crime TV Shows, International TV Shows, TV Act...
      3
                                     Docuseries, Reality TV
      4 International TV Shows, Romantic TV Shows, TV ...
                                                description
      O As her father nears the end of his life, filmm...
      1 After crossing paths at a party, a Cape Town t...
      2 To protect his family from a powerful drug lor...
      3 Feuds, flirtations and toilet talk go down amo...
      4 In a city of coaching centers known to train I...
[92]: df.shape
[92]: (8807, 12)
[93]: df.isnull().sum()
                         0
[93]: show_id
                         0
      type
      title
                         0
      director
                      2634
      cast
                       825
                       831
      country
      date_added
                        10
      release year
                         0
      rating
      duration
                         3
      listed in
                         0
      description
      dtype: int64
     Splitting the directors by title
[94]: df_director_r=pd.DataFrame(df['director'].apply(lambda x: str(x).split(',')).
       ⇔tolist(),index=df['title'])
[95]: df_director=df_director_r.stack().reset_index()
      df_director.drop('level_1',axis=1,inplace=True)
      df_director.rename(columns = {0:'director'},inplace= True)
      df director.head(5)
[95]:
                         title
                                        director
          Dick Johnson Is Dead Kirsten Johnson
      1
                 Blood & Water
      2
                     Ganglands Julien Leclercq
      3 Jailbirds New Orleans
                                             nan
```

International TV Shows, TV Dramas, TV Mysteries

1

nan

4

2

Blood & Water

Kota Factory

TV Dramas

```
3
                Blood & Water
                                         TV Mysteries
                                       Crime TV Shows
      4
                    Ganglands
[100]: df.columns
[100]: Index(['show_id', 'type', 'title', 'director', 'cast', 'country', 'date_added',
              'release_year', 'rating', 'duration', 'listed_in', 'description'],
            dtype='object')
      Merging the columns
[101]: df_new1=df_director.merge(df_cast,how='inner',on = 'title')
      df new1
      df_new2=df_listed_in.merge(df_country,how='inner',on='title')
      df new2
      df_new=df_new1.merge(df_new2,how= 'inner',on='title')
      df_new.head(5)
[101]:
                        title
                                      director
                                                        cast
      O Dick Johnson Is Dead Kirsten Johnson
                                                         nan
                Blood & Water
      1
                                                  Ama Qamata
                                           nan
      2
                Blood & Water
                                           nan
                                                  Ama Qamata
      3
                Blood & Water
                                                  Ama Qamata
                                           nan
      4
                Blood & Water
                                                 Khosi Ngema
                                           nan
                      listed in
                                       country
      0
                  Documentaries United States
        International TV Shows
                                  South Africa
      1
                      TV Dramas
                                  South Africa
      2
      3
                   TV Mysteries
                                  South Africa
      4 International TV Shows
                                  South Africa
[102]: df.columns
[102]: Index(['show_id', 'type', 'title', 'director', 'cast', 'country', 'date_added',
              'release_year', 'rating', 'duration', 'listed_in', 'description'],
            dtype='object')
      Creating the df final DataFrame
[103]: df_final=df_new.merge(df[['show_id', 'type', 'title', 'date_added',
              'release_year', 'rating', 'duration',⊔
       df_final.sample(5)
[103]:
                                title
                                                 director
                                                                       cast \
      133435
                              Results
                                          Andrew Bujalski
                                                            Brooklyn Decker
```

Shojiro Nishimi

Kenn Michael

MFKZ

74241

```
88840
               Neon Genesis Evangelion
                                                               Takehito Koyasu
                                                         nan
       41563
                         Alone/Together
                                         Antoinette Jadaone
                                                                 Adrian Alandy
       77979
                            Shot Caller
                                            Ric Roman Waugh
                                                                Omari Hardwick
                                               country show_id
                              listed_in
                                                                    type
       133435
                    Independent Movies
                                         United States
                                                          s5890
                                                                   Movie
       74241
                                                                   Movie
                               Comedies
                                                  Japan
                                                          s3102
       88840
                International TV Shows
                                                  Japan
                                                          s3725
                                                                 TV Show
       41563
                  International Movies
                                           Philippines
                                                          s1733
                                                                   Movie
       77979
                                 Dramas
                                         United States
                                                                   Movie
                                                          s3236
                      date_added
                                   release_year rating
                                                         duration
                                                          105 min
       133435
                October 22, 2015
                                           2015
       74241
               December 25, 2019
                                           2017
                                                      R.
                                                           95 min
       88840
                   June 21, 2019
                                                 TV-MA
                                           1995
                                                         1 Season
                November 5, 2020
       41563
                                           2019
                                                 TV-14
                                                          103 min
       77979
               November 24, 2019
                                                      R.
                                                          121 min
                                           2017
                                                       description
       133435
               After an ugly divorce, a wealthy but unhappy m...
       74241
               Mysterious goons chase teenage slacker Angelin...
       88840
               Fifteen years after the Second Impact, Shinji ...
       41563
               Eight years after their breakup, college sweet...
       77979
               Trying to go straight, a once-successful busin...
      Replacing 'Nan' values with Unknown
[104]: df_final['director'].replace(['nan'],['Unknown Director'],inplace = True)
       df_final['cast'].replace(['nan'],['Unknown Cast'],inplace = True)
       df_final['date_added'].replace(['nan'],['Unknown Date'],inplace = True)
       df_final['country'].replace(['nan'],['Unknown Country'],inplace=True)
       df_final.head(5)
[104]:
                         title
                                         director
                                                            cast
         Dick Johnson Is Dead
                                  Kirsten Johnson
                                                  Unknown Cast
       1
                 Blood & Water Unknown Director
                                                      Ama Qamata
       2
                 Blood & Water
                                 Unknown Director
                                                      Ama Qamata
       3
                 Blood & Water
                                 Unknown Director
                                                      Ama Qamata
       4
                 Blood & Water Unknown Director
                                                     Khosi Ngema
                       listed_in
                                         country show_id
                                                                             date_added \
                                                              type
       0
                   Documentaries
                                   United States
                                                             Movie
                                                                    September 25, 2021
                                                       s1
       1
          International TV Shows
                                    South Africa
                                                       s2
                                                          TV Show
                                                                    September 24, 2021
       2
                       TV Dramas
                                    South Africa
                                                       s2
                                                           TV Show
                                                                    September 24, 2021
       3
                    TV Mysteries
                                    South Africa
                                                       s2
                                                           TV Show
                                                                    September 24, 2021
          International TV Shows
                                    South Africa
                                                           TV Show
                                                                    September 24, 2021
                                                       s2
```

```
2021 TV-MA
                               2 Seasons
       1
       2
                  2021 TV-MA
                               2 Seasons
       3
                  2021 TV-MA
                              2 Seasons
       4
                  2021 TV-MA 2 Seasons
                                                description
       O As her father nears the end of his life, filmm...
       1 After crossing paths at a party, a Cape Town t...
       2 After crossing paths at a party, a Cape Town t...
       3 After crossing paths at a party, a Cape Town t...
       4 After crossing paths at a party, a Cape Town t...
      Checking for null values
[105]: df_final[df_final['duration'].isnull()]
[105]:
                                              title
                                                        director
                                                                        cast \
       126582
                                    Louis C.K. 2017 Louis C.K.
                                                                 Louis C.K.
                              Louis C.K.: Hilarious Louis C.K.
       131648
                                                                 Louis C.K.
       131782 Louis C.K.: Live at the Comedy Store Louis C.K.
                                                                 Louis C.K.
              listed_in
                               country show_id
                                                 type
                                                                date_added \
       126582
                 Movies United States
                                         s5542
                                                Movie
                                                             April 4, 2017
       131648
                         United States
                                                       September 16, 2016
                 Movies
                                         s5795 Movie
       131782
                 Movies United States
                                         s5814 Movie
                                                           August 15, 2016
               release_year
                             rating duration
                             74 min
       126582
                       2017
                                         NaN
       131648
                       2010 84 min
                                         NaN
       131782
                       2015 66 min
                                         NaN
                                                      description
       126582 Louis C.K. muses on religion, eternal love, gi...
               Emmy-winning comedy writer Louis C.K. brings h...
       131648
       131782
               The comic puts his trademark hilarious/thought...
[106]: df_final[df_final['duration'].isnull()]
[106]:
                                              title
                                                        director
                                                                        cast
       126582
                                    Louis C.K. 2017 Louis C.K.
                                                                 Louis C.K.
                              Louis C.K.: Hilarious Louis C.K.
       131648
                                                                 Louis C.K.
       131782 Louis C.K.: Live at the Comedy Store Louis C.K.
                                                                 Louis C.K.
              listed_in
                               country show_id
                                                 type
                                                                date_added \
```

duration \

90 min

release\_year rating

2020 PG-13

0

```
126582
                 Movies United States
                                         s5542 Movie
                                                            April 4, 2017
       131648
                 Movies United States
                                         s5795 Movie September 16, 2016
       131782
                 Movies United States
                                         s5814 Movie
                                                          August 15, 2016
               release_year rating duration \
                            74 min
                       2017
       126582
                                         NaN
       131648
                       2010 84 min
                                         NaN
                       2015 66 min
       131782
                                         NaN
                                                     description
       126582 Louis C.K. muses on religion, eternal love, gi...
       131648 Emmy-winning comedy writer Louis C.K. brings h...
       131782 The comic puts his trademark hilarious/thought...
[107]: import pandas as pd
       # Assuming df_final is already defined and loaded with the relevant data
       # Fill missing 'duration' values with 'rating' values
       df_final['duration'] = df_final['duration'].fillna(df_final['rating'])
       # Update specific rows in 'rating' column
       df_final.loc[126582, 'rating'] = "unknown rating"
       df_final.loc[131648, 'rating'] = "unknown rating"
       df_final.loc[131782, 'rating'] = "unknown rating"
[108]: for ele in df_final[df_final['rating'].isnull()]:
           df_final['rating'] = df_final['rating'].fillna('unknown rating')
[109]: for ele in df_final[df_final['date_added'].isnull()]:
           df_final['date_added'] = df_final['date_added'].fillna('unknown date')
      Confirming no further nulls in the df_final
[110]: df_final.isnull().sum()
[110]: title
                       0
                       0
       director
       cast
       listed_in
                       0
       country
                       0
       show_id
       type
       date_added
      release year
      rating
                       0
       duration
                       0
```

description 0 dtype: int64

Final data frame after cleaning as 'df\_final'

```
[111]: df_final.head()
[111]:
                         title
                                        director
                                                           cast
          Dick Johnson Is Dead
                                 Kirsten Johnson
                                                   Unknown Cast
       1
                 Blood & Water Unknown Director
                                                     Ama Qamata
       2
                 Blood & Water
                                Unknown Director
                                                     Ama Qamata
       3
                 Blood & Water Unknown Director
                                                     Ama Qamata
                 Blood & Water Unknown Director
                                                    Khosi Ngema
                       listed in
                                         country show_id
                                                                            date_added \
                                                             type
                   Documentaries
                                                                   September 25, 2021
       0
                                  United States
                                                      s1
                                                            Movie
          International TV Shows
                                   South Africa
                                                      s2 TV Show
                                                                   September 24, 2021
                       TV Dramas
                                   South Africa
                                                      s2 TV Show
                                                                   September 24, 2021
                    TV Mysteries
                                   South Africa
                                                      s2 TV Show
                                                                   September 24, 2021
       3
                                                                   September 24, 2021
         International TV Shows
                                   South Africa
                                                      s2 TV Show
          release_year rating
                                duration \
       0
                  2020 PG-13
                                  90 min
                  2021 TV-MA
       1
                               2 Seasons
       2
                  2021 TV-MA
                               2 Seasons
       3
                  2021 TV-MA
                               2 Seasons
                  2021 TV-MA
                               2 Seasons
                                                 description
       O As her father nears the end of his life, filmm...
       1 After crossing paths at a party, a Cape Town t...
       2 After crossing paths at a party, a Cape Town t...
       3 After crossing paths at a party, a Cape Town t...
       4 After crossing paths at a party, a Cape Town t...
        1. What type of content is available in different countries?
[112]: #Non-graphical analysis
       type_uni=df_final['type'].nunique()
       country_uni=df_final['country'].nunique()
       print(f'The no.of unique values of type of content is :{type_uni} ')
       print(f'The no.of unique country content :{country_uni} ')
      The no. of unique values of type of content is :2
      The no.of unique country content :198
[113]: country_wise=df_final.groupby(['country'])['type'].value_counts()
       country_wise_df=country_wise.reset_index(name='counts')
```

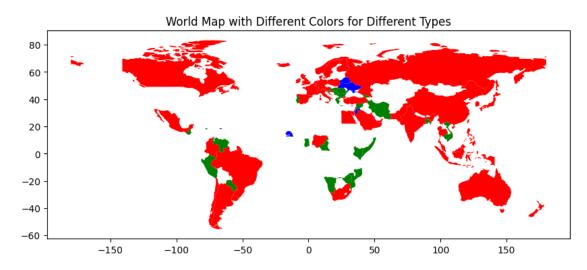
```
country_wise_df
       # Remove the 'counts' column
       country_wise_df.drop(columns=['counts'], inplace=True,errors='ignore')
       # Merge rows for countries with both "Movie" and "TV Show"
       country_wise_df = country_wise_df.groupby('country')['type'].apply(lambda x: '_

√k '.join(map(str, x))).reset_index()

       # Function to map types to numeric categories
       def map_category(types):
           if 'Movie' in types and 'TV Show' in types:
               return 2
           elif 'Movie' in types:
               return 0
           elif 'TV Show' in types:
               return 1
           else:
               return None
       # Apply the mapping function to create the 'category' column
       country_wise_df['category'] = country_wise_df['type'].apply(map_category)
       country_wise_df.drop(columns=['type'], inplace=True)
       country_wise_df.rename(columns={'category': 'type'},inplace=True)
       country_wise_df
Γ1137:
                 country type
       0
       1
                             0
             Afghanistan
       2
                 Albania
       3
                 Algeria
                  Angola
                             0
       193
                             2
                 Uruguay
               Venezuela
       194
                             0
       195
                 Vietnam
                             0
       196 West Germany
                Zimbabwe
       197
       [198 rows x 2 columns]
[114]: import geopandas as gpd
       world = gpd.read_file(gpd.datasets.get_path('naturalearth_lowres'))
```

<ipython-input-114-a2bd7936e57b>:4: FutureWarning: The geopandas.dataset module
is deprecated and will be removed in GeoPandas 1.0. You can get the original
'naturalearth\_lowres' data from
https://www.naturalearthdata.com/downloads/110m-cultural-vectors/

https://www.naturalearthdata.com/downloads/110m-cultural-vectors/.
world = gpd.read\_file(gpd.datasets.get\_path('naturalearth\_lowres'))



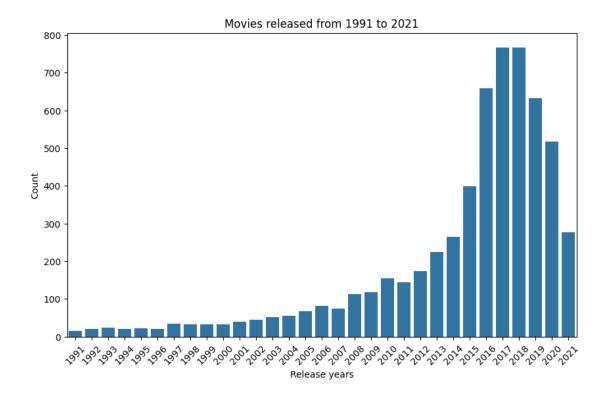
2. How has the number of movies released per year changed over the last 20-30 years?

```
[115]: # Extract relevant columns and remove duplicates
movies_yr = df_final[['title', 'type', 'release_year']].copy()
movies_yr.drop_duplicates(subset=['title'], inplace=True)
```

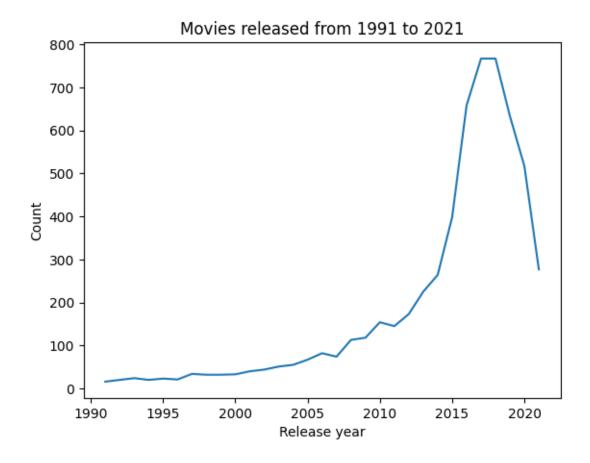
```
# Group by type and release year, then count the occurrences
       movies_yr = movies_yr.groupby(['type', 'release_year']).size().

¬reset_index(name='count')
       # Filter the DataFrame to include only movies
       movies_yr_df = movies_yr[movies_yr['type'] == 'Movie'].copy()
       # Sort the DataFrame by release year
       movies_yr_df.sort_values(by='release_year', inplace=True)
       # Define the time period for the last 30 years
       end_year = 2021
       start_year = end_year - 30
       # Filter the DataFrame for the specified time period
       movies_yr_df = movies_yr_df[
           (movies_yr_df['release_year'] >= start_year) &
           (movies_yr_df['release_year'] <= end_year)</pre>
       ]
       # Display the first few rows of the filtered DataFrame
       movies_yr_df.head()
[115]:
           type release_year count
       42 Movie
                         1991
                                   16
       43 Movie
                          1992
                                   20
       44 Movie
                         1993
                                   24
       45 Movie
                          1994
                                   20
       46 Movie
                          1995
                                   23
[116]: plt.figure(figsize=(10, 6))
       sns.barplot(x='release_year',y='count',data=movies_yr_df)
       plt.xlabel('Release years')
       plt.ylabel('Count')
       plt.title('Movies released from 1991 to 2021')
       plt.xticks(rotation=45)
       plt.show()
```

movies\_yr.reset\_index(drop=True, inplace=True)

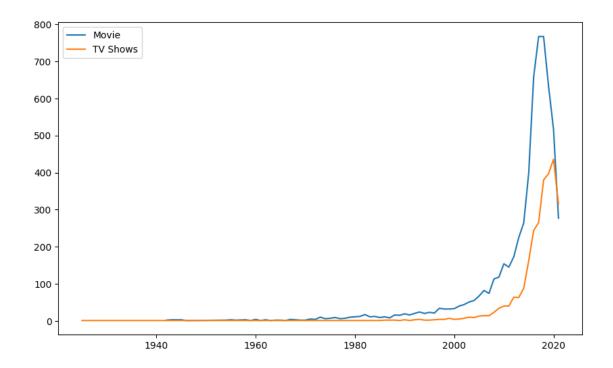


```
[117]: sns.lineplot(x='release_year',y='count',data=movies_yr_df)
   plt.title('Movies released from 1991 to 2021')
   plt.xlabel('Release year')
   plt.ylabel('Count')
   plt.show()
```



## 3. Comparison of tv shows vs. movies.

```
tv_shows_df = movie_shows[movie_shows['type'] == 'TV Show'].copy()
      # Sorting the dataframes by release year
      movie_shows_df.sort_values(by='release_year', inplace=True)
      tv_shows_df.sort_values(by='release_year', inplace=True)
      movie_shows_df.head(), tv_shows_df.head()
[118]: (
            type release_year count
       62 Movie
                          1942
       59 Movie
                          1943
                                    3
       58 Movie
                          1944
                                    3
       56 Movie
                          1945
        68 Movie
                          1946
                                    1,
               type release_year count
        107 TV Show
                             1925
                                       1
        106 TV Show
                             1945
                                       1
        108 TV Show
                             1946
                                        1
        110 TV Show
                             1963
                                        1
        111 TV Show
                             1967
                                       1)
[119]: plt.figure(figsize=(10, 6))
      # Plot the dataframes
      plt.plot(movie_shows_df['release_year'], movie_shows_df['count'], label='Movie')
      plt.plot(tv_shows_df['release_year'], tv_shows_df['count'], label='TV Shows')
      # Add a legend
      plt.legend()
      # Show the plot
      plt.show()
```



4. What is the best time to launch a TV show?

```
[120]: # Extract relevant columns and remove duplicates
best_time = df_final[['title', 'date_added', 'type']].copy()
best_time.drop_duplicates(subset=['title'], inplace=True)
best_time.reset_index(drop=True, inplace=True)

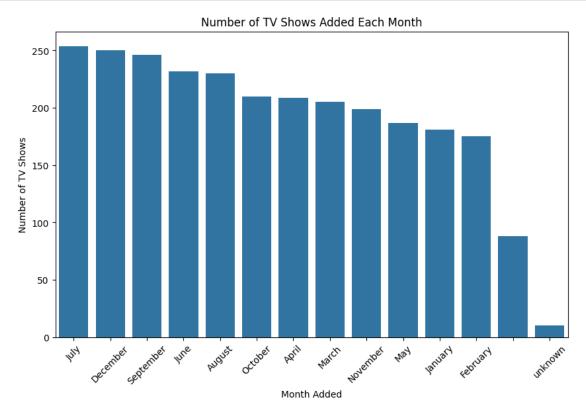
# Remove rows where type is 'Movie'
best_time = best_time[best_time['type'] != 'Movie'].copy()

# Extract the month from the 'date_added' column
best_time['month_added'] = best_time['date_added'].apply(lambda x: x.split('u'))[0])

# Count the number of TV shows added each month
best = best_time['month_added'].value_counts().reset_index()
best.columns = ['month_added'].value_counts()
# Extract the top 5 months
top_months = best.nlargest(5, 'count')['month_added'].tolist()
print(f"The best time to launch a TV show is: \n{top_months}")
```

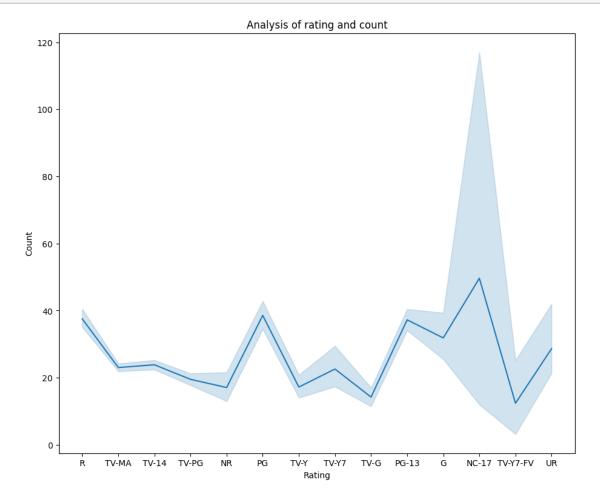
The best time to launch a TV show is:
['July', 'December', 'September', 'June', 'August']

```
[121]: plt.figure(figsize=(10, 6))
    sns.barplot(x='month_added', y='count', data=best, order=best['month_added'])
    plt.xlabel('Month Added')
    plt.ylabel('Number of TV Shows')
    plt.title('Number of TV Shows Added Each Month')
    plt.xticks(rotation=45)
    plt.show()
```



5. Analysis of actors/directors of different types of shows/movies.

```
[122]:
                                                    count
                           director rating
                                              type
                     Aaron Moorhead
       0
                                            Movie
                                                        6
       1
                     Aaron Moorhead
                                     TV-MA
                                            Movie
                                                       18
       2
                        Aaron Woolf
                                     TV-14 Movie
                                                        2
           Abbas Alibhai Burmawalla
       3
                                     TV-14 Movie
                                                       18
                   Abdullah Al Noor
       4
                                     TV-MA Movie
                                                       30
[123]: plt.figure(figsize=(11, 9))
       sns.lineplot(x='rating',y='count',data=movie_shows_dir_df)
       plt.title('Analysis of rating and count')
       plt.xlabel('Rating')
       plt.ylabel('Count')
       plt.show()
```



6. Does Netflix has more focus on TV Shows than movies in recent years

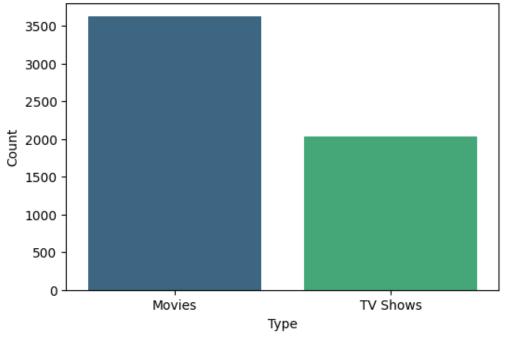
```
[124]: recent_years = df_final[df_final['release_year'] >= 2016]
recent_years = recent_years.drop_duplicates(subset=["title"])
```

```
type_counts = recent_years['type'].value_counts()
movie = type_counts.get('Movie', 0)
tv_show = type_counts.get('TV Show', 0)
print(f"Number of movies in recent years: {movie}")
print(f"Number of TV shows in recent years: {tv_show}")

if movie > tv_show:
    print("Netflix has more focus on movies in recent years.")
elif movie < tv_show:
    print("Netflix has more focus on TV shows in recent years.")</pre>
```

Number of movies in recent years: 3619 Number of TV shows in recent years: 2037 Netflix has more focus on movies in recent years.

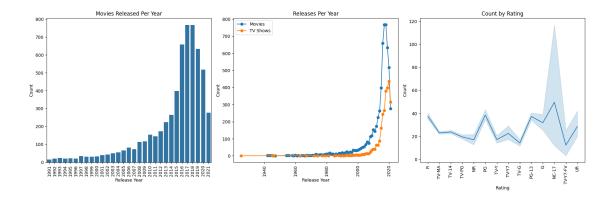
# Number of Movies and TV Shows Released by Netflix (2016 onwards)



7 .Understanding what content is available in different countries

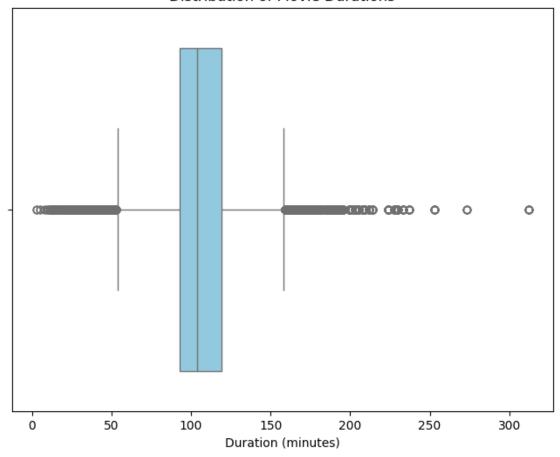
```
[126]: df_understanding=df_final.groupby(['country'])['listed_in'].value_counts()
       df_understanding_1=df_understanding.reset_index(name='counts')
       df_understanding_1.sample(5)
[126]:
                           country
                                                  listed in counts
       936
                                                  Thrillers
              United Arab Emirates
                                                                  8
       2180
                       Switzerland
                                      Faith & Spirituality
                                                                  1
       141
                            Canada
                                                   Kids' TV
                                                                 58
       2007
                            Russia
                                     TV Action & Adventure
                                                                  8
       1773
                          Malaysia
                                               TV Comedies
                                                                  7
[128]: # Create a figure and subplots
       plt.figure(figsize=(18, 6))
       # Plot first subplot
       plt.subplot(1, 3, 1)
       sns.barplot(x='release_year', y='count', data=movies_yr_df)
       plt.xlabel('Release Year')
       plt.ylabel('Count')
       plt.title('Movies Released Per Year')
       plt.xticks(rotation=90)
       # Plot second subplot
       plt.subplot(1, 3, 2)
       plt.plot(movie_shows_df['release_year'], movie_shows_df['count'],__
        ⇔label='Movies', marker='o')
       plt.plot(tv_shows_df['release_year'], tv_shows_df['count'], label='TV Shows',_

marker='o')
       plt.xlabel('Release Year')
       plt.ylabel('Count')
       plt.title('Releases Per Year')
       plt.legend()
       plt.xticks(rotation=90)
       # Plot third subplot
       plt.subplot(1, 3, 3)
       sns.lineplot(x='rating', y='count', data=movie_shows_dir_df)
       plt.xlabel('Rating')
       plt.ylabel('Count')
       plt.title('Count by Rating')
       plt.xticks(rotation=90)
       # Adjust layout to prevent overlap
       plt.tight_layout()
       # Show the plot
       plt.show()
```



Box plot for the distribution of movie duration.

## Distribution of Movie Durations



## 0.0.1 1. Content Availability in Different Countries

*Insight:* - Different countries have access to different types of content, including movies, TV shows, or both.

Recommendation: - Localization Strategy: Tailor content offerings to specific countries based on local preferences. For instance, if a country shows a higher preference for TV shows, focus on acquiring or producing more TV shows for that market. - Content Diversity: Ensure a mix of both movies and TV shows in each market to cater to a broader audience and avoid saturating the market with one type of content.

#### 0.0.2 2. Trends in Movie Releases Over the Last 20-30 Years

*Insight:* - There is a noticeable trend in the number of movies released over the years, with fluctuations possibly influenced by industry changes and global events.

Recommendation: - Historical Analysis: Use historical data to predict future trends in movie releases and plan content acquisition accordingly. - Seasonal Releases: Identify peak times for movie releases and schedule major releases during these periods to maximize viewership.

#### 0.0.3 3. Comparison of TV Shows vs. Movies

*Insight:* - There has been a notable difference in the release patterns of movies and TV shows over the years.

Recommendation: - Content Balance: Maintain a balance between movies and TV shows to cater to different audience preferences. - Genre Analysis: Analyze popular genres within both categories to optimize content acquisition and production.

#### 0.0.4 4. Best Time to Launch a TV Show

*Insight:* - Certain months have higher counts of TV show releases, indicating possibly favorable times for launching new shows.

Recommendation: - Optimal Release Timing: Plan the launch of new TV shows during months with historically high viewership to capitalize on audience engagement. - Marketing Campaigns: Align marketing efforts with these optimal times to maximize the impact of new releases.

### 0.0.5 5. Analysis of Actors/Directors in Different Types of Shows/Movies

*Insight:* - Certain directors and actors are associated with specific types of content and ratings.

Recommendation: - Talent Acquisition: Focus on collaborating with directors and actors who have a proven track record of success in the type of content Netflix wants to promote. - Star Power: Use well-known actors and directors to attract viewership, especially in new markets or for new content types.

### 0.0.6 6. Focus on TV Shows vs. Movies in Recent Years

*Insight:* - There has been a shift in focus towards TV shows in recent years.

Recommendation: - Strategic Focus: If the trend shows a growing interest in TV shows, continue to invest in high-quality TV show production and acquisition. - Content Expansion: Consider expanding the TV show library, including different genres and international TV shows, to cater to diverse tastes.

## 0.0.7 7. Understanding Content Available in Different Countries

*Insight:* - The content available varies significantly between countries, reflecting local tastes and preferences.

Recommendation: - Localized Content: Increase investment in local content production and acquisitions to cater to regional preferences. - Global Distribution: Ensure popular content is available globally, with localized subtitles and dubbing to enhance accessibility and viewership.

#### 0.0.8 General Recommendations:

- Data-Driven Decisions: Continuously use data analytics to monitor viewer preferences and trends, enabling more informed decisions about content acquisition and production.
- *User Feedback:* Regularly collect and analyze user feedback to understand their preferences and improve the content library accordingly.

- *Marketing Strategies:* Tailor marketing strategies based on regional insights and viewing habits to maximize engagement and subscription rates.
- Content Innovation: Explore new and innovative content formats, such as interactive shows or short-form content, to stay ahead in the competitive streaming market.

By leveraging these insights and recommendations, Netflix can optimize its content strategy to enhance user engagement, satisfaction, and overall market competitiveness.