

```
In [1]: # Importing Libraries

import numpy as np #helps in working arrays and matrices
import pandas as pd #helps in reading datasets / manipulating dataframes
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [2]: # reading our dataset

df=pd.read_csv("C:/Users/nacha/Downloads/dataset_netflix1 .csv")
df
```

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	9/25/2021	2020	PG-13	90 min	Documentaries
1	s3	TV Show	Ganglands	Julien Leclercq	France	9/24/2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	9/24/2021	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	9/22/2021	2021	TV-PG	91 min	Children & Family Movies, Comedies
4	s8	Movie	Sankofa	Haile Gerima	United States	9/24/2021	1993	TV-MA	125 min	Dramas, Independent Movies, International Movies
...
8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	1/17/2017	2016	TV-PG	2 Seasons	International TV Shows, TV Dramas
8786	s8798	TV Show	Zak Storm	Not Given	United States	9/13/2018	2016	TV-Y7	3 Seasons	Kids' TV
8787	s8801	TV Show	Zindagi Gulzar Hai	Not Given	Pakistan	12/15/2016	2012	TV-PG	1 Season	International TV Shows, Romantic TV Shows, TV ...
8788	s8784	TV Show	Yoko	Not Given	Pakistan	6/23/2018	2016	TV-Y	1 Season	Kids' TV
8789	s8786	TV Show	YOM	Not Given	Pakistan	6/7/2018	2016	TV-Y7	1 Season	Kids' TV

8790 rows x 10 columns

```
In [3]: #Convert date in proper format

df['date_added']=pd.to_datetime(df['date_added'],format='%m/%d/%Y')
```

```
In [4]: df['date_added']=pd.to_datetime(df['date_added'],format='%d-%m-%Y')
```

```
In [5]: df['date_added']=df['date_added'].dt.strftime('%d-%m-%Y')
df
```

	show_id	type	title	director	country	date_added	release_year	rating	duration	listed_in
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	United States	25-09-2021	2020	PG-13	90 min	Documentaries
1	s3	TV Show	Ganglands	Julien Leclercq	France	24-09-2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...
2	s6	TV Show	Midnight Mass	Mike Flanagan	United States	24-09-2021	2021	TV-MA	1 Season	TV Dramas, TV Horror, TV Mysteries
3	s14	Movie	Confessions of an Invisible Girl	Bruno Garotti	Brazil	22-09-2021	2021	TV-PG	91 min	Children & Family Movies, Comedies
4	s8	Movie	Sankofa	Haile Gerima	United States	24-09-2021	1993	TV-MA	125 min	Dramas, Independent Movies, International Movies
...
8785	s8797	TV Show	Yunus Emre	Not Given	Turkey	17-01-2017	2016	TV-PG	2 Seasons	International TV Shows, TV Dramas
8786	s8798	TV Show	Zak Storm	Not Given	United States	13-09-2018	2016	TV-Y7	3 Seasons	Kids' TV
8787	s8801	TV Show	Zindagi Gulzar Hai	Not Given	Pakistan	15-12-2016	2012	TV-PG	1 Season	International TV Shows, Romantic TV Shows, TV ...
8788	s8784	TV Show	Yoko	Not Given	Pakistan	23-06-2018	2016	TV-Y	1 Season	Kids' TV
8789	s8786	TV Show	YOM	Not Given	Pakistan	07-06-2018	2016	TV-Y7	1 Season	Kids' TV

8790 rows x 10 columns

Visualizations

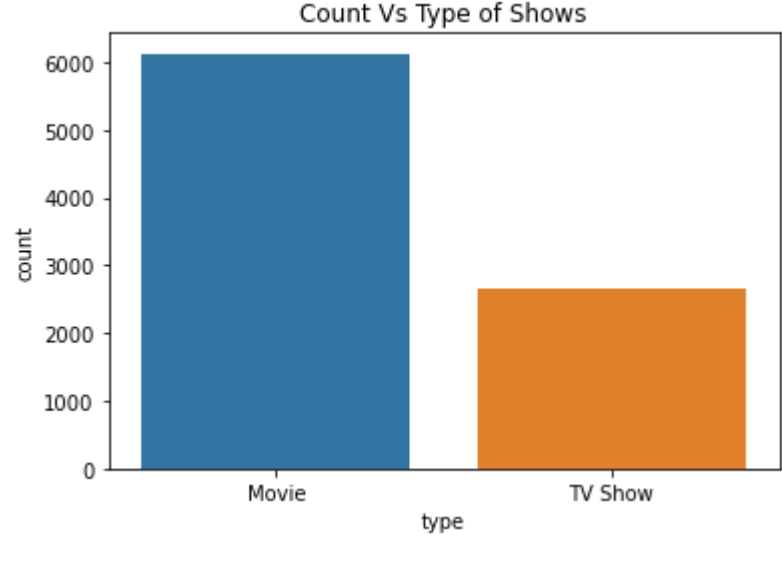
```
In [6]: df.type.value_counts() # Values counts method shows the counts of different categories in a given column
```

Out[6]:
Movie 6126
TV Show 2664
Name: type, dtype: int64

```
In [7]: # Countplot helps us to plot counts of each category

sns.countplot(x='type',data=df)
plt.title("Count Vs Type of Shows")
```

Out[7]: Text(0.5, 1.0, 'Count Vs Type of Shows')



On Netflix there are more no. of Movies as Compared to TV shows.

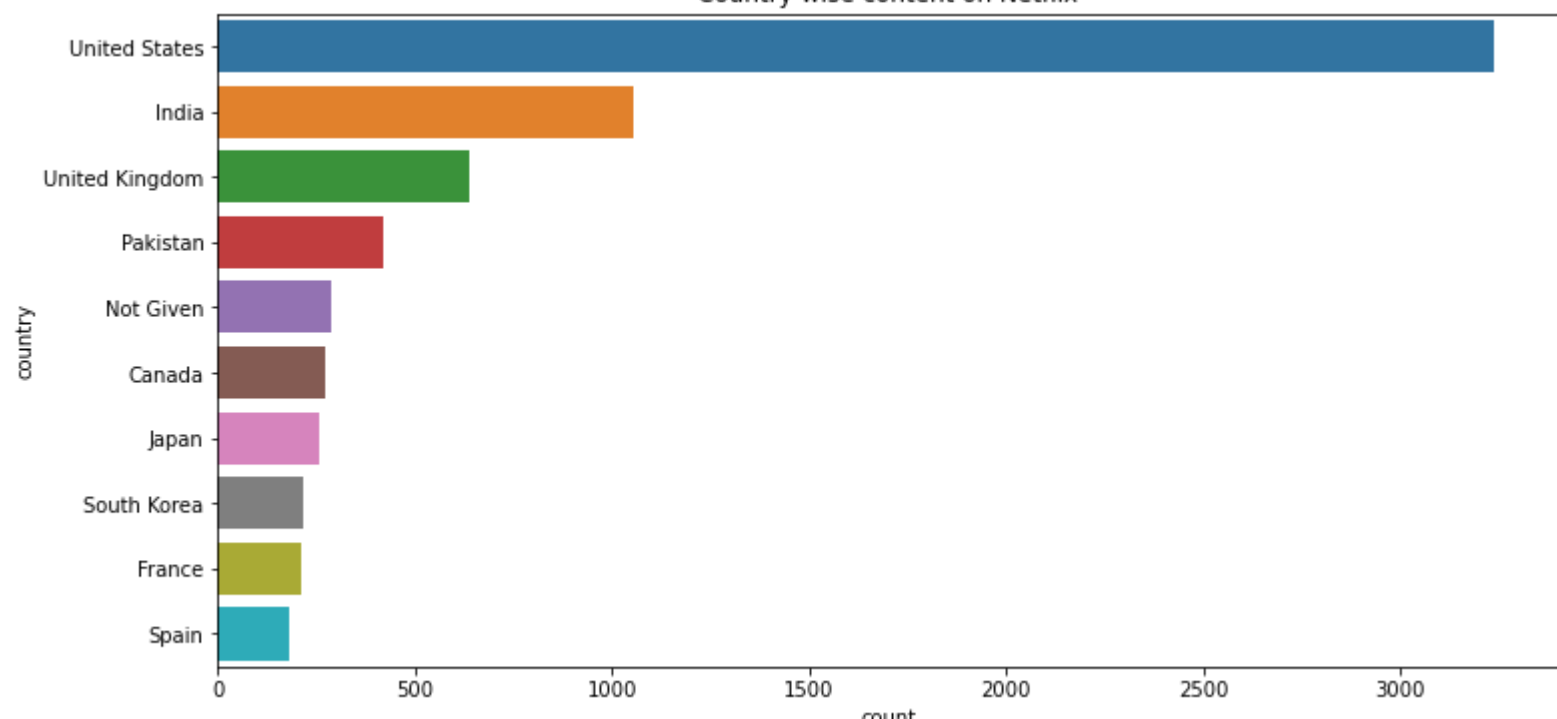
Country Analysis

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In [8]: df['country'].value_counts().head(10)
```

Out[8]:
United States 3240
India 1057
United Kingdom 638
Pakistan 421
Not Given 287
Canada 271
Japan 259
South Korea 214
France 213
Spain 182
Name: country, dtype: int64

```
In [9]: plt.figure(figsize=(12,6))
sns.countplot(y='country', order=df['country'].value_counts().index[0:10],data=df)
plt.title('Country wise content on Netflix')
```

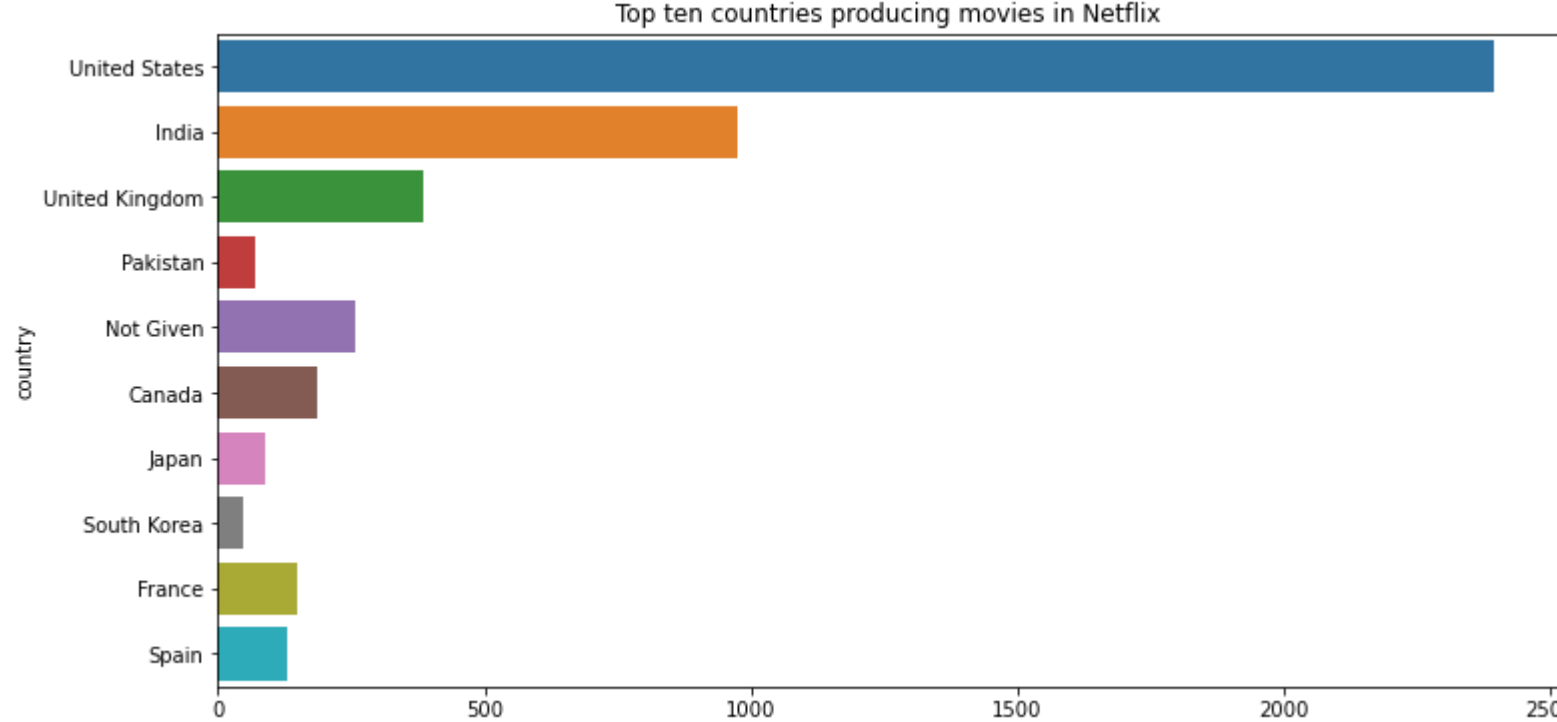
Out[9]: Text(0.5, 1.0, 'Country wise content on Netflix')



```
In [10]: # Type of content based on country
movie_countries = df[df['type']=='Movie']
tv_show_countries = df[df['type']=='TV Show']
```

```
In [11]: plt.figure(figsize=(12,6))
sns.countplot(y='country', order=df['country'].value_counts().index[0:10],data=movie_countries)
plt.title('Top ten countries producing movies in Netflix')
```

Out[11]: Text(0.5, 1.0, 'Top ten countries producing movies in Netflix')



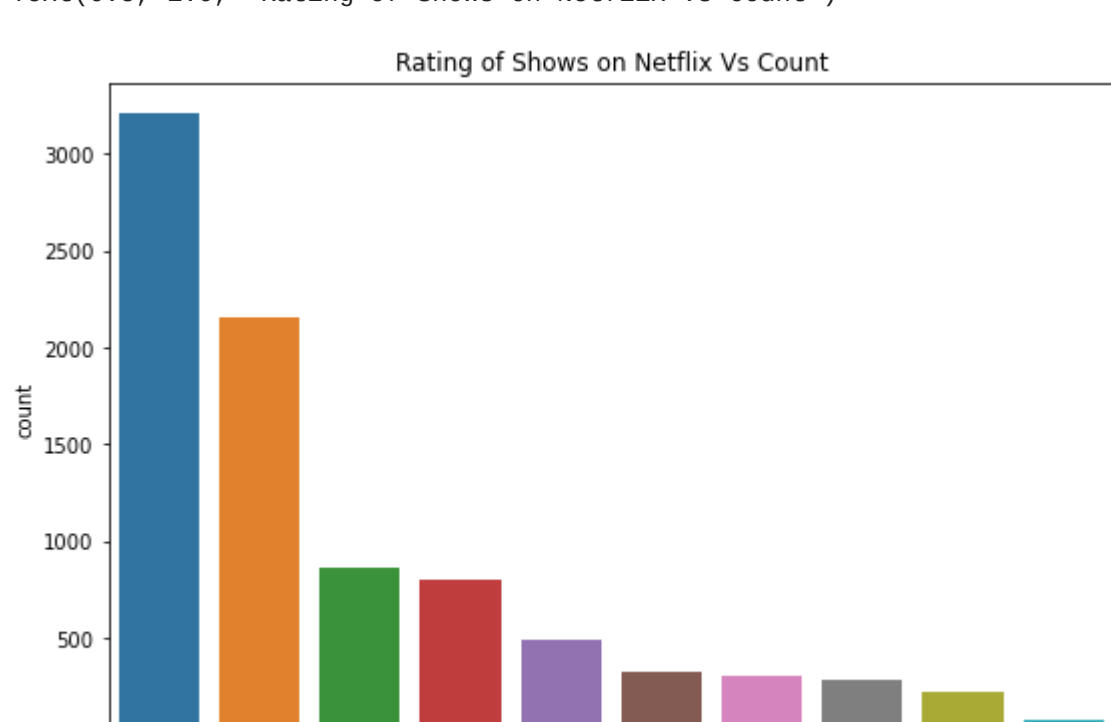
```
In [12]: # The major rating given to Netflix shows
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```
In [13]: df.rating.value_counts()
```

Out[13]:
TV-MA 3205
TV-14 2157
TV-PG 861
R 799
PG-13 490
TV-Y7 333
TV-Y 306
PG 287
TV-G 220
NR 79
G 41
TV-Y7-FV 6
NC-17 3
UR 3
Name: rating, dtype: int64

```
In [14]: plt.figure(figsize=(9,6))
sns.countplot(x='rating', order=df['rating'].value_counts().index[0:10],data=df)
plt.title('Rating of Shows on Netflix Vs Count')
```

Out[14]: Text(0.5, 1.0, 'Rating of Shows on Netflix Vs Count')

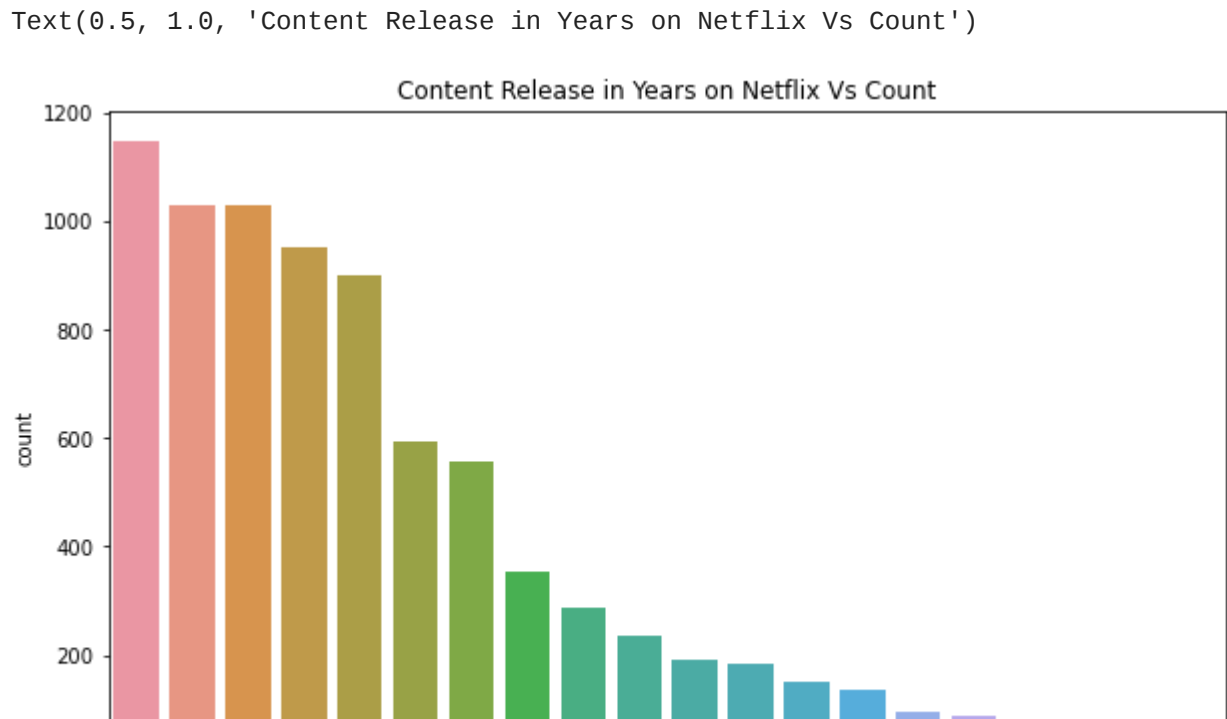


```
In [15]: df.release_year.value_counts()[0:20]
```

Out[15]:
2018 1146
2017 1030
2019 1030
2020 953
2016 901
2021 592
2015 555
2014 352
2013 286
2012 236
2010 192
2011 185
2009 152
2008 135
2006 96
2007 88
2005 80
2004 64
2003 59
2002 51
Name: release_year, dtype: int64

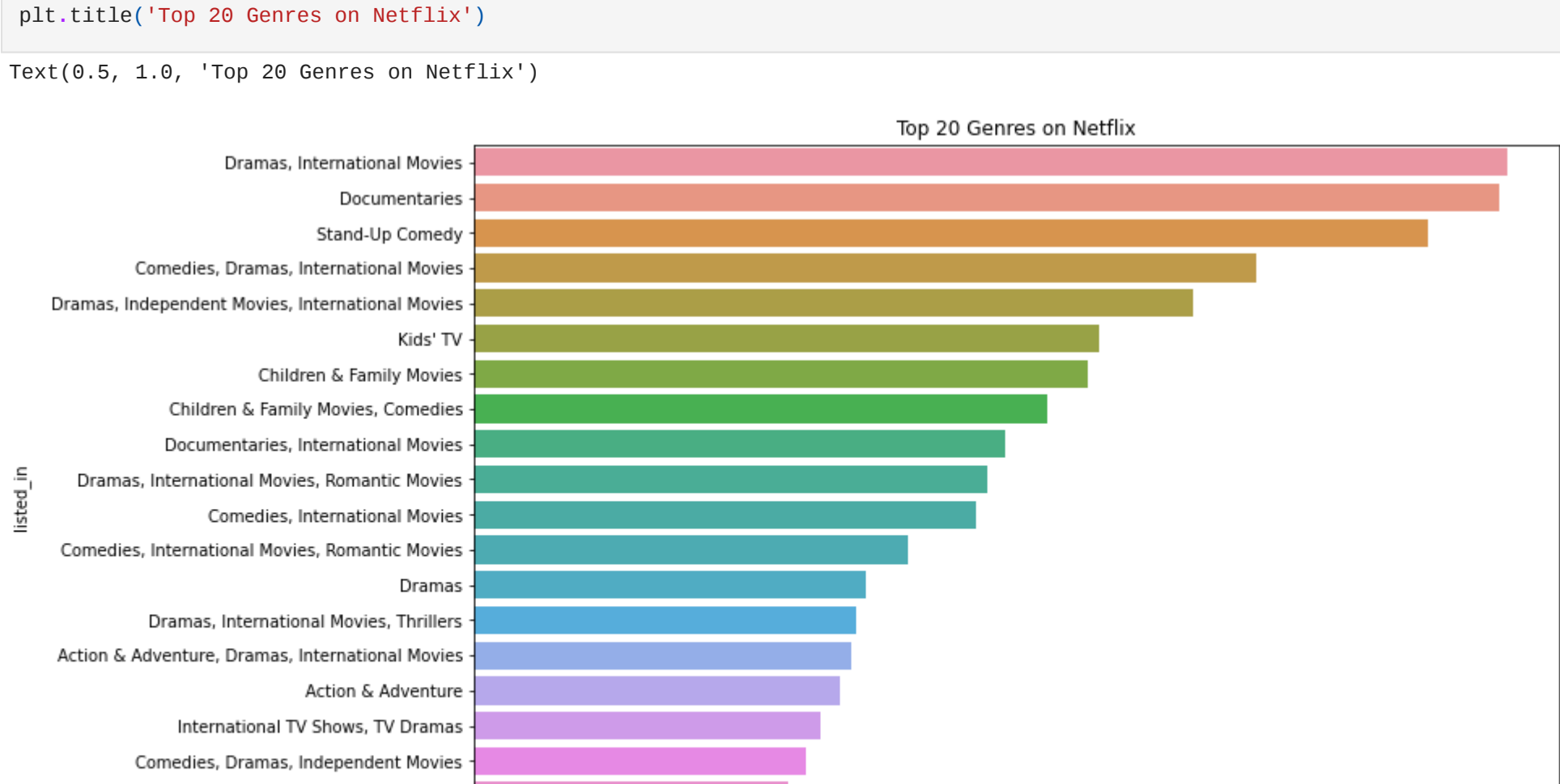
```
In [16]: plt.figure(figsize=(10,6))
sns.countplot(x='release_year', order=df['release_year'].value_counts().index[0:20],data=df)
plt.title('Content Release in Years on Netflix Vs Count')
```

Out[16]: Text(0.5, 1.0, 'Content Release in Years on Netflix Vs Count')



```
In [17]: # Popular Genres Analysis
plt.figure(figsize=(12,8))
sns.countplot(y='listed_in', order=df['listed_in'].value_counts().index[0:20],data=df)
plt.title('Top 20 Genres on Netflix')
```

Out[17]: Text(0.5, 1.0, 'Top 20 Genres on Netflix')



Summary

- 1)Netflix has a larger selection of movies compared to TV shows.
- 2)The United States leads in producing both movies and TV shows on Netflix, with India ranking second in movie production.
- 3)Netflix primarily targets mature audiences, with most of its content tailored for adults.
- 4)2018 saw a substantial increase in the amount of content released on Netflix compared to other years.
- 5)International movies and dramas are the top favorite genres among Netflix viewers.