3 Bruno Garotti 9/22/2021 2021 TV-PG s14 Movie Confessions of an Invisible Girl Brazil 91 min Children & Family Movies, Comedies 4 Haile Gerima United States 9/24/2021 s8 Movie Sankofa 1993 TV-MA 125 min Dramas, Independent Movies, International Movies 1/17/2017 2016 TV-PG 2 Seasons International TV Shows, TV Dramas 8785 s8797 TV Show Yunus Emre Not Given Turkey Not Given United States 8786 s8798 TV Show Zak Storm 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 ... Not Given Kids' TV 8788 s8784 TV Show Yoko Pakistan 6/23/2018 2016 TV-Y 1 Season 6/7/2018 s8786 TV Show YOM TV-Y7 1 Season Kids' TV 8789 Not Given Pakistan 2016 8790 rows × 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 title listed\_in Out[5]: show\_id type director country date\_added release\_year rating duration 0 Movie Dick Johnson Is Dead Kirsten Johnson United States 25-09-2021 2020 PG-13 90 min Documentaries s1 s3 TV Show Ganglands Julien Leclercq 24-09-2021 2021 TV-MA 1 Season Crime TV Shows, International TV Shows, TV Act... France s6 TV Show **United States** 1 Season 2 Midnight Mass Mike Flanagan 24-09-2021 2021 TV-MA TV Dramas, TV Horror, TV Mysteries s14 Movie Confessions of an Invisible Girl Bruno Garotti Brazil 22-09-2021 2021 TV-PG Children & Family Movies, Comedies Haile Gerima United States 4 s8 Sankofa 24-09-2021 1993 TV-MA 125 min Dramas, Independent Movies, International Movies Movie 8785 s8797 TV Show Not Given Turkey 17-01-2017 2016 TV-PG 2 Seasons International TV Shows, TV Dramas Yunus Emre Not Given United States 8786 s8798 TV Show Zak Storm 13-09-2018 TV-Y7 3 Seasons Kids' TV Zindagi Gulzar Hai Pakistan 15-12-2016 8787 s8801 TV Show Not Given 1 Season International TV Shows, Romantic TV Shows, TV ... 2012 TV-PG s8784 TV Show 8788 Not Given Pakistan 23-06-2018 1 Season Kids' TV Yoko Not Given 8789 s8786 TV Show YOM Pakistan 07-06-2018 2016 TV-Y7 1 Season Kids' TV 8790 rows × 10 columns **Visualizations** In [6]: # Values counts method shows the counts of different categories in a given column df.type.value\_counts() Movie 6126 Out[6]: 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") Text(0.5, 1.0, 'Count Vs Type of Shows') Count Vs Type of Shows 6000 5000 4000 3000 2000 1000 Movie TV Show type On Netflix there are more no. of Movies as Campared to TV shows. **Country Analysis** df['country'].value\_counts().head(10) United States 3240 Out[8]: India 1057 United Kingdom 638 Pakistan 421 Not Given 287 Canada 271 259 Japan 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') Text(0.5, 1.0, 'Country wise content on Netflix') Country wise content on Netflix United States India United Kingdom Pakistan Canada Japan South Korea Spain 500 1000 1500 2000 2500 3000 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') Text(0.5, 1.0, 'Top ten countries producing movies in Netflix') Top ten countries producing movies in Netflix United States India United Kingdom Pakistan Not Given Canada Japan South Korea France Spain 500 1000 1500 2000 2500 In [12]: # The major rating given to Netflix shows In [13]: df.rating.value\_counts() 3205 TV-MA TV-14 2157 TV-PG 861 799 PG-13 490 TV-Y7 333  $\mathsf{TV}\mathsf{-}\mathsf{Y}$ 306 PG 287 220 TV-G NR79 41 TV-Y7-FV NC-17 Name: rating, dtype: int64 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') Text(0.5, 1.0, 'Rating of Shows on Netflix Vs Count') Rating of Shows on Netflix Vs Count 3000 2500 2000 1500 1000 500 TV-Y PĠ TV-14 TV-PG PG-13 TV-Y7 TV-G rating In [15]: df.release\_year.value\_counts()[:20] 2018 1146 Out[15]: 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 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') Text(0.5, 1.0, 'Content Release in Years on Netflix Vs Count') Content Release in Years on Netflix Vs Count 1200 1000 400 200 2018 2017 2019 2020 2016 2021 2015 2014 2013 2012 2010 2011 2009 2008 2006 2007 2005 2004 2003 2002 release\_year 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') Text(0.5, 1.0, 'Top 20 Genres on Netflix') Top 20 Genres on Netflix Dramas, International Movies Documentaries Stand-Up Comedy Comedies, Dramas, International Movies Dramas, Independent Movies, International Movies Kids' TV Children & Family Movies Children & Family Movies, Comedies Documentaries, International Movies listed\_in Dramas, International Movies, Romantic Movies Comedies, International Movies Comedies, International Movies, Romantic Movies Dramas, International Movies, Thrillers Action & Adventure, Dramas, International Movies Action & Adventure International TV Shows, TV Dramas Comedies, Dramas, Independent Movies Crime TV Shows, International TV Shows, TV Dramas 100 150 200 250 300 350 count 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.

# Importing Libraries

import seaborn as sns

# reading our dataset

show\_id

s1

0

1

2

In [2]:

Out[2]:

import matplotlib.pyplot as plt

type

Movie

s3 TV Show

s6 TV Show

import numpy as np #helps in working arrays and matrices

df=pd.read\_csv("C:/Users/nacha/Downloads/dataset\_netflix1 .csv")

import pandas as pd #helps in reading datasets / manipulating dataframes

title

Ganglands

Midnight Mass

director

Mike Flanagan United States

Julien Leclercq

Dick Johnson Is Dead Kirsten Johnson United States

country

France

date\_added release\_year rating

2020 PG-13

2021 TV-MA

2021 TV-MA

9/25/2021

9/24/2021

9/24/2021

duration

1 Season

90 min

listed\_in

Documentaries

TV Dramas, TV Horror, TV Mysteries

1 Season Crime TV Shows, International TV Shows, TV Act...