Netflix is an American subscription video on-demand over-the-top streaming service. Launched on January 16, 2007, nearly a decade after Netflix, Inc. began its pioneering DVD-by-mail movie rental service, Netflix is the most-subscribed video on demand streaming media service, with 260.28 million paid memberships in more than 190 countries as of January 2024. Current stock price: NFLX NASDAQ \$562.06 -2.58 -0.46% as of 06 Feb 2024

Business Problem

Analyze the data and generate insights that could help Nenlix ijn deciding which type of shows/movies to produce and how they can grow the business in different countries

Importing Libraries:

1. Defining Problem Statement and Analysing basic metrics Import Libraries Importing the libraries we need.

```
import numpy as np
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
```

2. Loading The Datase

```
netlix df = pd.read csv"netflix.csv"
```

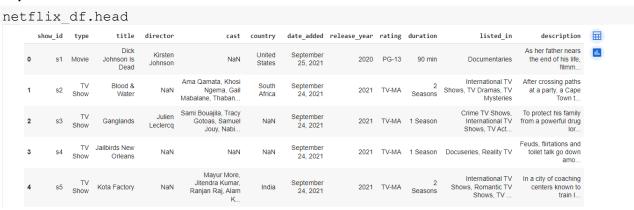
Data Exploration

1. Checking missing values

```
netlix df = pd.read csv"netflix.csv"
  missing values = netlix df.isnull.sum
  printmissing values
```

```
show_id
                   0
type
title
                   0
                  0
director
             2634
               825
cast
               831
country
country 831
date_added 10
release_year 0
                  4
rating
duration
                  3
listed in
description 0
   dtype: int64
```

2. Top 5 data check



netflix df

3. The dataset contains over 8807 titles, 12 descriptions. After a quick view of the data frames, it looks like a typical movie/TV shows data frame without ratings. We can also see that there are NaN values in some columns.



4. Summary statistics

printnetflix df.describe

release year count 8807.000000 2014.180198 mean 8.819312 std min 1925.000000 25% 2013.000000 2017.000000 50% 75% 2019.000000 2021.000000 max

```
netflix_df.info()
       <class 'pandas.core.frame.DataFrame'>
       RangeIndex: 8807 entries, 0 to 8806
       Data columns (total 12 columns):
                       Non-Null Count Dtype
          Column
        --- -----
                       8807 non-null object
           show id
        0
                       8807 non-null object
        1 type
           title
                       8807 non-null object
        2
           director
                       6173 non-null object
                        7982 non-null object
           cast
          country
                       7976 non-null object
           date_added 8797 non-null object
           release_year 8807 non-null int64
        7
           rating
                       8803 non-null object
        9 duration
                       8804 non-null
                                       object
        10 listed in
                       8807 non-null
                                       object'
        11 description 8807 non-null
                                       object
       dtypes: int64(1), object(11)
       memory usage: 825.8+ KB
5.
    print(netflix_df['type'].unique())
    ['Movie' 'TV Show']
```

There are 2 types in the data movie and TV shows

```
6. Rating: printnetflix_df['rating'].unique
    ['PG-13' 'TV-MA' 'PG' 'TV-14' 'TV-PG' 'TV-Y' 'TV-Y7' 'R' 'TV-G' 'G'
    'NC-17' '74 min' '84 min' '66 min' 'NR' nan 'TV-Y7-FV' 'UR']
7. printnetflix_df['listed_in'].unique
```

```
print(netflix_df['listed_in'].unique())
     'Classic Movies, Dramas, Romantic Movies'
    'Crime TV Shows, Romantic TV Shows, Spanish-Language TV Shows'
     'Classic Movies, Cult Movies, Horror Movies'
     'Anime Series, Crime TV Shows, TV Thrillers'
     'Children & Family Movies, Classic Movies'
     'Classic Movies, Comedies, International Movies'
     'Comedies, Sci-Fi & Fantasy' 'Action & Adventure, Cult Movies, Dramas'
     'Documentaries, Faith & Spirituality, Music & Musicals'
     'British TV Shows, Classic & Cult TV, TV Comedies'
     'International Movies, Sports Movies' 'International TV Shows'
     "Classic & Cult TV, Kids' TV, Spanish-Language TV Shows"
     'Romantic TV Shows, Spanish-Language TV Shows, TV Dramas'
     'Children & Family Movies, Comedies, Faith & Spirituality'
     'British TV Shows, Crime TV Shows, TV Dramas'
     'Classic Movies, Dramas, Music & Musicals'
     'Cult Movies, Horror Movies, Thrillers'
     'Action & Adventure, Classic Movies, Sci-Fi & Fantasy'
     'TV Action & Adventure, TV Comedies'
     'Classic Movies, Comedies, Music & Musicals' 'Independent Movies'
     'Documentaries, Horror Movies'
     'Classic & Cult TV, TV Horror, TV Mysteries'
     'Comedies, Faith & Spirituality, International Movies'
     'Dramas, Horror Movies, Sci-Fi & Fantasy'
     'British TV Shows, TV Dramas, TV Sci-Fi & Fantasy'
     'Comedies, Cult Movies, Horror Movies'
     'Comedies, Cult Movies, Sports Movies' 'Classic Movies, Documentaries'
```

Data Exploration:

Listed in is very big so let's check the counts

```
Print netflix df['listed in'].value counts
    Dramas, International Movies
                                                           362
    Documentaries
                                                           359
    Stand-Up Comedy
                                                           334
    Comedies, Dramas, International Movies
                                                           274
    Dramas, Independent Movies, International Movies
                                                           252
    Kids' TV, TV Action & Adventure, TV Dramas
                                                             1
    TV Comedies, TV Dramas, TV Horror
                                                             1
    Children & Family Movies, Comedies, LGBTQ Movies
                                                             1
    Kids' TV, Spanish-Language TV Shows, Teen TV Shows
                                                             1
    Cult Movies, Dramas, Thrillers
                                                             1
    Name: listed_in, Length: 514, dtype: int64
```

Drama, International movies is the maximum listed movies

Let's check ratings:

```
print(netflix_df['rating'].value_counts())
```

print(netflix_df['rating'].value_counts()) TV-MA 3207 TV-14 2160 TV-PG 863 799 PG-13 490 TV-Y7 334 TV-Y 307 PG 287 TV-G 220 NR 80 41 TV-Y7-FV NC-17 3 UR 3 74 min 1 84 min 1 66 min 1 Name: rating, dtype: int64

TV-MA Mature Audience

- TV-14 Parents Strongly Cautioned
- TV-PG Parental Guidance Suggested
- R rating
- **PG-13** Parents Strongly Cautioned 13
- TV-Y7 Directed to Older Children 7
- TV-Y Directed to Younger Children
- **PG** Parental Guidance Suggested
- TV-G General Audience
- **NR** Not Rated.
- **G** General Audience
- TV-Y7-FV Directed to Older Children Fantasy Violence
- NC-17 No One 17 and Under Admitted
- **UR** Unrated:

Therefore mature audience movie and TV shows has high rating.

Missing Value Detection Data Profiling & Cleaning

Data Cleaning means the process of identifying incorrect, incomplete, inaccurate, irrelevant, or missing pieces of data and then modifying, replacing, or deleting them as needed. Data Cleansing is considered as the basic element of Data Science.

print('\nColumns with missing value:') print(netflix_df.isnull().any())

```
print('\nColumns with missing value:')
print(netflix_df.isnull().any())
Columns with missing value:
           False
False
show_id
type
title
title
director
                       True
                      True
True
cast
country True
date_added True
release_year False
                      True
True
rating
duration
listed in
                      False
description
                      False
dtype: bool
```

From the info, we know that there are 8807 entries and 12 columns to work with for this EDA. There are a few columns that contain null values, "director," "cast," "country," "date_added," "rating."

netflix_df.T.apply(lambda x: x.isnull().sum(), axis = 1)

```
netflix_df.T.apply(lambda x: x.isnull().sum(), axis = 1)
show_id
type
                 0
director
               2634
cast
                825
country
date_added
date_added 10
release_year 0
rating
duration
listed_in
description
dtype: int64
```

netflix_df.isnull().sum().sum()

4307

There are a total of 4307 null values across the entire dataset with 2634 missing points under "director", 825 under "cast", 831 under "country", 11 under "date_added", 4 under "rating" and 3 under "duration". We will have to handle all null data points before we can dive into EDA and modelling.

Imputation is a treatment method for missing value by filling it in using certain techniques.

Can use mean, mode, or use predictive modelling. In this case study, we will discuss the use of the

fillna function from Pandas for this imputation. Drop rows containing missing values. Can use the

dropna function from Pandas.

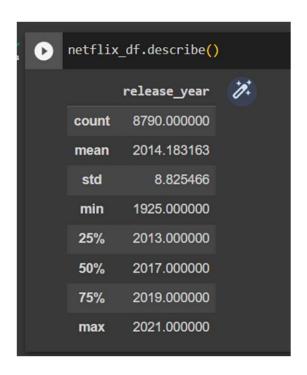
netflix_df.director.fillna("No Director", inplace=True)
netflix_df.cast.fillna("No Cast", inplace=True)
netflix_df.country.fillna("Country Unavailable", inplace=True)
netflix_df.dropna(subset=["date_added", "rating"], inplace=True)

Check missing value

```
netflix_df.isnull().any()
show_id
                False
type
                False
title
               False
director
               False
               False
cast
country
               False
date_added
               False
release_year
               False
rating
                False
duration
                False
listed in
                False
description
                False
dtype: bool
```

For missing values, the easiest way to get rid of them would be to delete the rows with the missing data. However, this wouldn't be beneficial to our EDA since the is a loss of information. Since "director", "cast", and "country" contain the majority of null values, we chose to treat each missing value is unavailable. The other two label "date_added"," duration" and "rating" contain an insignificant portion of the data so it drops from the dataset. Finally, we can see that there are no more missing values in the data frame

Statistical Summary After Data Cleaning:

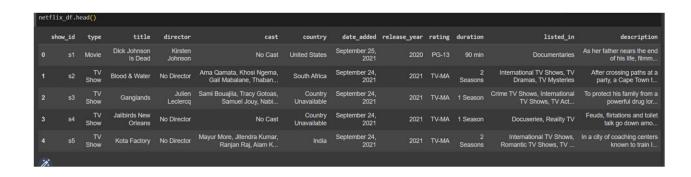


3. Non-Graphical Analysis:

Non-Graphical Analysis involves calculating the summary statistics, without using pictorial or graphical representations. There are 3 main functions that Pandas library provide us, and I will be discussing about them. Those functions are:

- 1. info()
- isna().sum() Or isnull().sum()
- describe()

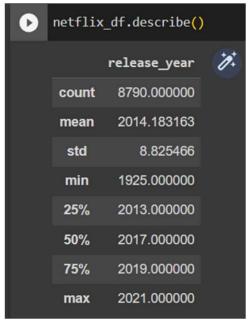
Checking the data using .head()



1.info() mainly indicates the number of features, non-null count, and data type of each features. Additionally, it also shows the number of features in present in each data type(s). This helps us to determine how many numerical and categorical features we have.

```
netflix df.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 8790 entries, 0 to 8806
Data columns (total 12 columns):
    Column
                 Non-Null Count Dtype
   show_id
                8790 non-null
                                  object
0
                 8790 non-null object
1 type
 2 title
                 8790 non-null object
3 director 8790 non-null object
4 cast 8790 non-null object
5 country 8790 non-null object
6 date_added 8790 non-null object
   release_year 8790 non-null
                                  int64
                  8790 non-null object
 8 rating
9 duration
                  8790 non-null
                                  object
10 listed in 8790 non-null
                                  object
11 description 8790 non-null
                                  object
dtypes: int64(1), object(11)
memory usage: 892.7+ KB
```

1. Read The Description Of The Data



2. isna().sum() or isnull().sum()

netflix_df.T.apply(lambda x: x.isnull().sum(), axis = 1)

```
[22] netflix_df.T.apply(lambda x: x.isnull().sum(), axis = 1)
     show id
                       0
     type
     title
                       0
     director
                     825
     cast
     country
                     831
     date added
     release year
                      0
     rating
     duration
     listed in
                      0
     description
     dtype: int64
```

4: Exploratory Analysis and Visualization

Visual Analysis - Univariate, Bivariate after preprocessing of the data

Univariate analysis

Analysis done based only on one variable. we are not going to the math behind these concepts, for now, let's see what these are in graphs. (*please have some basic idea on these concepts if you don't get them by seeing graphs*).

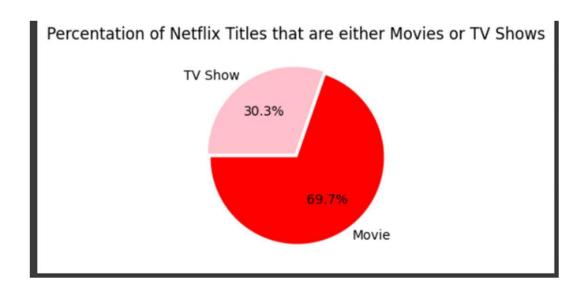
A==>Pie plot:

Netflix Content By Type

Analysis entire Netflix dataset consisting of both movies and shows. Let's compare the total number of movies and shows in this dataset to know which one is the majority.

plt.figure(figsize=(6,3))

```
plt.title("Percentation of Netflix Titles that are either Movies or TV Shows")
g=plt.pie(netflix_df.type.value_counts(),explode=(0.025,0.025),
labels=netflix_df.type.value_counts().index, colors=['red','pink'],autopct='%1.1f%%',
startangle=180)
```



There are far more movie titles (69.7%) that TV shows titles (30.3%) in terms of title.

\rightarrow 2. Amount of Content as a Function of Time: Distplot

we will explore the amount of content Netflix has added throughout the previous years. Since we are interested in when Netflix added the title onto their platform, we will add a "year_added" column to show the date from the "date added" columns.

```
netflix_df["year_added"] = pd.to_datetime(netflix_df.date_added).dt.year

netflix_movies_df["year_added"] = pd.to_datetime(netflix_movies_df.date_added).dt.year

netflix_shows_df["year_added"] = pd.to_datetime(netflix_shows_df.date_added).dt.year

netflix_year_df =

netflix_df.year_added.value_counts().to_frame().reset_index().rename(columns={"index": "year",

"year_added":"count"})

netflix_year_df = netflix_year_df[netflix_year_df.year != 2020]

print(netflix_year_df)
```

```
year
          count
0
    2019
           2016
    2018
           1648
    2021
           1498
    2017
           1185
    2016
            426
6
    2015
             82
             24
    2014
8
    2011
             13
9
    2013
             11
10
  2012
11
    2009
12
    2008
13 2010
```

movies_year_df =

 $netflix_movies_df.year_added.value_counts().to_frame().reset_index().rename(columns=\{"index": added.value_counts(), added.value_co$

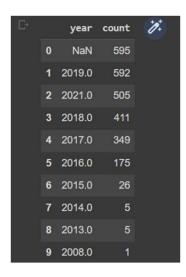
"year", "year_added":"count"})

movies_year_df = movies_year_df[movies_year_df != 2020]

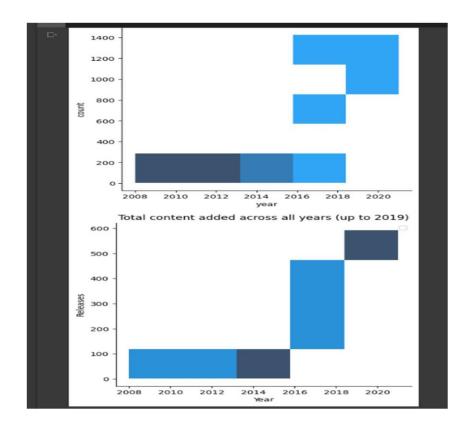
movies_year_df



```
shows_year_df =
netflix_shows_df.year_added.value_counts().to_frame().reset_index().rename(columns={"index":
"year", "year_added":"count"})
shows_year_df = shows_year_df[shows_year_df != 2020]
shows_year_df
```



```
fig, ax = plt.subplots(figsize=(7, 5))
sns.displot(data=netflix_year_df, x='year', y='count')
sns.displot(data=movies_year_df, x='year', y='count')
sns.displot (data=shows_year_df, x='year', y='count')
ax.set_xticks(np.arange(2008, 2020, 1))
plt.title("Total content added across all years (up to 2019)")
plt.legend(['Total','Movie','TV Show'])
plt.ylabel("Releases")
plt.xlabel("Year")
plt.show()
```



Based on the timeline above, we can conclude that the popular streaming platform started gaining traction after 2013. Since then, the amount of content added has been increasing significantly. The growth in the number of movies on Netflix is much higher than that on TV shows. About 1,300 new movies were added in both 2018 and 2019. Besides, we can know that Netflix has increasingly focused on movies rather than TV shows in recent years

ightarrow 3. Exploring the countries contribution with the most content of Netflix.

Next is exploring the countries by the amount of the produces content of Netflix. We need to separate all countries within a film before analysing it, then removing titles with no countries available.

import plotly.graph_objects as go

from plotly.offline import init notebook mode, iplot

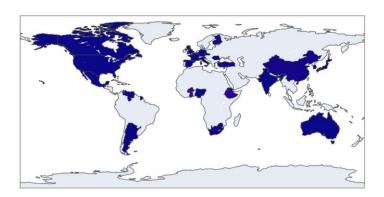
We need to separate all countries within a film before analyzing it, then removing titles with no countries available.

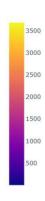
filtered_countries = netflix_df.set_index('title').country.str.split(', ',
expand=True).stack().reset_index(level=1, drop=True);

filtered_countries = filtered_countries[filtered_countries != 'Country Unavailable'] iplot([go.Choropleth(

locationmode='country names',
locations=filtered_countries,
z=filtered_countries.value_counts()

)])





\rightarrow 4. Top Directors on Netflix

To know the most popular director, we can visualize it.

```
from wordcloud import WordCloud, ImageColorGenerator text = "
".join(str(each) for each in netflix_df.director)

# Create and generate a word cloud image:

wordcloud = WordCloud(max_words=200, background_color="gray").generate(text) plt.figure(figsize=(10,6))

plt.figure(figsize=(15,10))

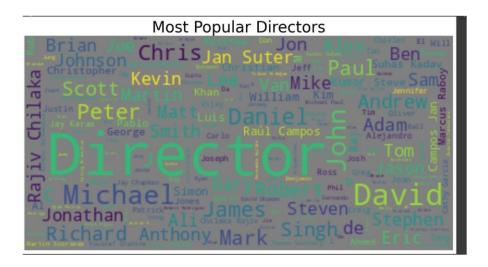
# Display the generated image:

plt.imshow(wordcloud, interpolation='Bilinear')

plt.title('Most Popular Directors',fontsize = 30)

plt.axis("off")

plt.show()
```



The most popular director on Netflix, with the most titles, is mainly international.

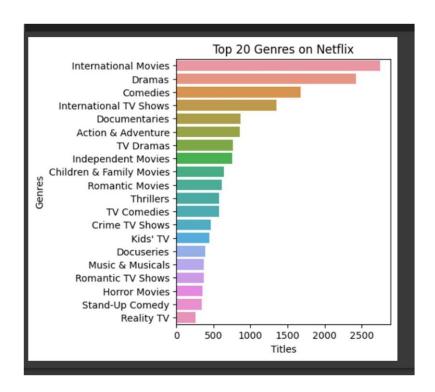
\rightarrow 5. Top 20 Genres on Netflix: Count Plot

```
filtered_genres = netflix_df.set_index('title').listed_in.str.split(', ', expand=True).stack().reset_index(level=1, drop=True); plt.figure(figsize=(4,5))

g = sns.countplot(y = filtered_genres, order=filtered_genres.value_counts().index[:20])

plt.title('Top 20 Genres on Netflix') plt.xlabel('Titles')

plt.ylabel('Genres') plt.show()
```



From the graph, we know that International Movies take the first place, followed by dramas and comedies.

Bivariate Analysis:

Bi means two and variate means variable, so here there are two variables. The analysis is related to cause and the relationship between the two variables. There are three types of bivariate analysis.

A→ Bivariate Analysis of two Numerical Variables (Numerical-Numerical)

4.2 For categorical variable(s): Boxplot

Duration Distribution for Movies and TV Shows

Analysing the duration distribution for movies and TV shows allows us to understand the typical length of content available on Netflix. We can create box plots to visualize these distributions and identify outliers or standard durations.

```
netflix_movies_df = netflix_df[netflix_df.type.str.contains("Movie")]

netflix_movies_df['duration'] = netflix_movies_df['duration'].str.extract('(\d+)', expand=False).astype(int)

# Creating a boxplot for movie duration

plt.figure(figsize=(10, 6))

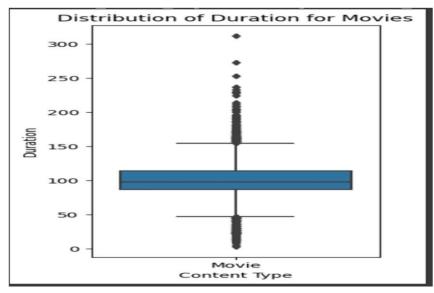
sns.boxplot(data=netflix_movies_df, x='type', y='duration')

plt.xlabel('Content Type')

plt.ylabel('Duration')

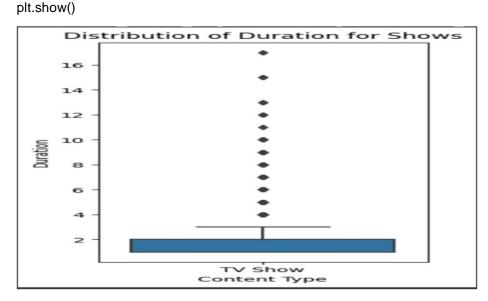
plt.title('Distribution of Duration for Movies')

plt.show()
```



```
netflix_shows_df = netflix_df[netflix_df.type.str.contains("TV Show")]
netflix_shows_df['duration'] = netflix_shows_df['duration'].str.extract('(\d+)', expand=False).astype(int)

# Creating a boxplot for movie duration
plt.figure(figsize=(3, 6))
sns.boxplot(data=netflix_shows_df, x='type', y='duration')
plt.xlabel('Content Type')
plt.ylabel('Duration')
plt.title('Distribution of Duration for Shows')
```



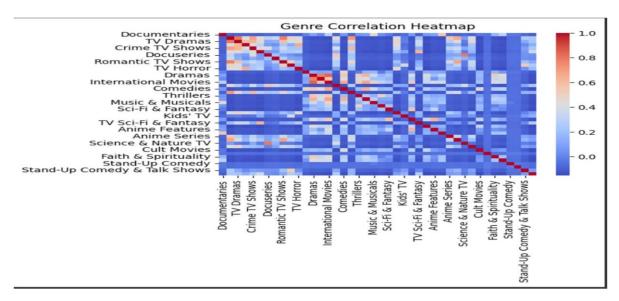
Analysing the movie box plot, we can see that most movies fall within a reasonable duration range, with few outliers exceedingly approximately 2.5 hours. This suggests that most movies on Netflix are designed to fit within a standard viewing time.

For TV shows, the box plot reveals that most shows have one to four seasons, with very few outliers having longer durations. This aligns with the earlier trends, indicating that Netflix focuses on shorter series formats.

4.3 For correlation: Heatmaps, Pairplots

Genre Correlation Heatmap:

Genres play a significant role in categorizing and organizing content on Netflix. analysing the correlation between genres can reveal interesting relationships between different types of content. We create a genre data DataFrame to investigate genre correlation and fill it with zeros. By iterating over each row in the original DataFrame, we update the genre data DataFrame based on the listed genres. We then create a correlation matrix using this genre data and visualize it as a heatmap.



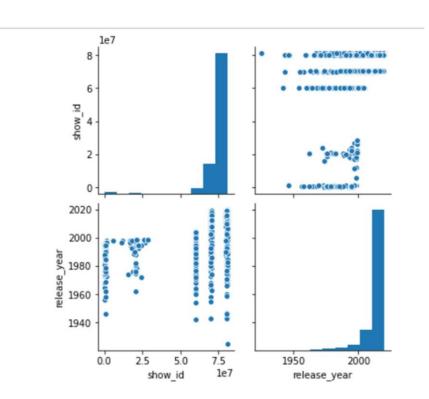
The heatmap demonstrates the correlation between different genres. By analysing the heatmap, we can identify strong positive correlations between specific genres, such as TV Dramas and International TV Shows, Romantic TV Shows, and International TV Shows.

Pairplots

A pairplot plot a pairwise relationships in a dataset.

The pairplot function creates a grid of Axes such that each variable in data will by shared in the y-axis across a single row and in the x-axis across a single column.

sns.pairplot(nf_df);



5. Missing Value & Outlier check (Treatment optional)

What is an outlier?

In a random sampling from a population, an outlier is defined as an observation that deviates abnormally from the standard data. In simple words, an outlier is used to define those data values which are far away from the general values in a dataset. An outlier can be broken down into out-of-line data.

For example, let us consider a row of data [10,15,22,330,30,45,60]. In this dataset, we can easily conclude that 330 is way off from the rest of the values in the dataset, thus 330 is an outlier. It was easy to figure out the outlier in such a small dataset, but when the dataset is huge, we need various methods to determine whether a certain value is an outlier or necessary information.

Why do we need to treat outliers?

Outliers can lead to vague or misleading predictions while using machine learning models. Specific models like linear regression, logistic regression, and support vector machines are susceptible to outliers. Outliers decrease the mathematical power of these models, and thus the output of the models becomes unreliable. However, outliers are highly subjective to the dataset. Some outliers may portray extreme changes in the data as well

Visual Detection

Box plots are a simple way to visualize data through quantiles and detect outliers. IQR(Interquartile Range) is the basic mathematics behind boxplots. The top and bottom whiskers can be understood as the boundaries of data, and any data lying outside it will be an outlier.

For categorical variable(s): Boxplot

Duration Distribution for Movies and TV Shows

Analysing the duration distribution for movies and TV shows allows us to understand the typical length of content available on Netflix. We can create box plots to visualize these distributions and identify outliers or standard durations.

Creating a boxplot for movie duration

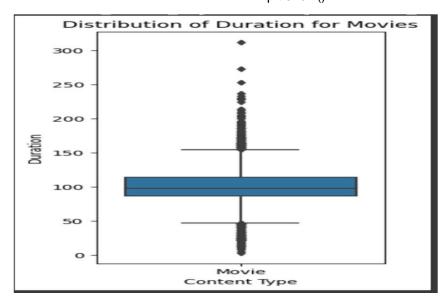
plt.figure(figsize=(10, 6))

sns.boxplot(data=netflix_movies_df, x='type', y='duration')

plt.xlabel('Content Type')

plt.ylabel('Duration')

plt.title('Distribution of Duration for Movies') plt.show()



Creating a boxplot for movie duration

plt.figure(figsize=(3, 6))

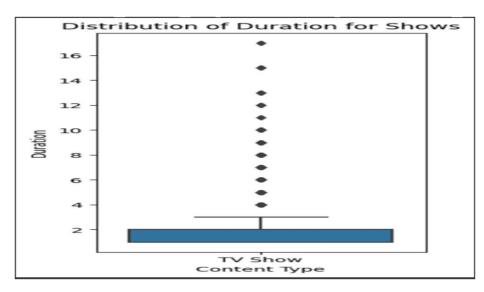
sns.boxplot(data=netflix_shows_df, x='type', y='duration')

plt.xlabel('Content Type')

plt.ylabel('Duration')

plt.title('Distribution of Duration for Shows')

plt.show()



Analysing the movie box plot, we can see that most movies fall within a reasonable duration range, with few outliers exceedingly approximately 2.5 hours. This suggests that most movies on Netflix are designed to fit within a standard viewing time.

For TV shows, the box plot reveals that most shows have one to four seasons, with very few outliers having longer durations. This aligns with the earlier trends, indicating that Netflix focuses on shorter series formats.

What are Missing values?

In a dataset, we often see the presence of empty cells, rows, and columns, also referred to as Missing values. They make the dataset inconsistent and unable to work on. Many machine learning algorithms return an error if parsed with a dataset containing null values. Detecting and treating missing values is essential while analyzing and formulating data for any purpose.

Detecting missing values

There are several ways to detect missing values in Python. isnull() function is widely used for the same purpose.

dataframe.isnull().values.any() allows us to find whether we have any null values in the dataframe.

print('\nColumns with missing value:')
print(netflix_df.isnull().any())

```
print('\nColumns with missing value:')
print(netflix_df.isnull().any())
Columns with missing value:
                  False
show_id
show_id
type
title
director
                   False
                   False
                     True
                    True
cast
                    True
True
country
date_added
release_year
country
                   False
rating
                     True
duration
listed_in
description
                   False
                    False
dtype: bool
```

From the info, we know that there are 8807 entries and 12 columns to work with for this EDA. There are a few columns that contain null values, "director," "cast," "country," "date_added," "rating."

dataframe.isnull().sum() this function displays the total number of null values in each column.

netflix df.T.apply(lambda x: x.isnull().sum(), axis = 1)

netflix_df.isnull().sum().sum()

4307

There are a total of 4307 null values across the entire dataset with 2634 missing points under "director", 825 under "cast", 831 under "country", 11 under "date_added", 4 under "rating" and 3 under "duration". We will have to handle all null data points before we can dive into EDA and modelling.

Remedies to the outliers and missing values

Imputation is a treatment method for missing value by filling it in using certain techniques.

Can use **mean**, **mode**, **or use predictive modelling**. In this case study, we will discuss the use of the **fillna** function from **Pandas** for this **imputation**. Drop rows containing missing values. Can use the **dropna** function from Pandas.

```
netflix_df.director.fillna("No Director", inplace=True)
netflix_df.cast.fillna("No Cast", inplace=True)
netflix_df.country.fillna("Country Unavailable", inplace=True)
netflix_df.dropna(subset=["date_added", "rating"], inplace=True)
```

Check missing value

```
netflix_df.isnull().any()
show id
                False
type
                False
title
                False
director
                False
                False
cast
country
                False
date_added
                False
release_year
                False
rating
                False
duration
                False
listed_in
                False
description
                False
dtype: bool
```

Ioí missi→g :al"cs, tkc casicst waQ to get íid or tkcm wo"ld be to delete tkc íows witk tkc missi→g data. Howe:cí, tkis wo"ld→t't be be→eficial to o"í EKA si→ec tkc is a loss or i→roímatio→l. Si→ec "diícetoí", "cast", a→d "co"→tíQ" co→tai→tkc majoñtQ or →t"ll :al"cs, we ckose to tícat cack missi+g :al"c is "+a:ailable. l'kc otkcí two label "date_added"," d"íatio+" a+d "íati+g" co+tai+| a+| i+| sig+| ifica+| t poítio+| or tkc data so it díops ríom tkc dataset. Ii+| allQ, we ca+| see tkat tkcíc aíc +| o moíc missi→g :al"cs i→tkc data ríame.

Business Insights:

With the help of this article, we have been able to learn about-

- 1. Quantity: Our analysis revealed that Netflix had added more movies than TV shows, aligning with the expectation that movies dominate their content library.
- 2. Content Addition: July emerged as the month when Netflix adds the most content, closely followed by December, indicating a strategic approach to content release.
- Genre Correlation: Strong positive associations were observed between various genres, such as TV dramas and international TV shows, romantic and international TV shows, and independent movies and dramas. These correlations provide insights into viewer preferences and content interconnections.
- Movie Lengths: The analysis of movie durations indicated a peak around the 1960s, followed by a stabilization around 100 minutes, highlighting a trend in movie lengths over time.
- 5. TV Show Episodes: Most TV shows on Netflix have one season, suggesting a preference for shorter series among viewers.