

NETFLIX

Data Sources:

This Netflix dataset has information about the TV show and movies available on Netflix till 2021

This dataset is collected from Flexible which is a third-party Netflix search engine , and available on Kaggle website

Questions:

- Q. 1) For 'House of Cards', what is the Show Id and Who is the Director of this show ?
- Q. 2) In which year the highest number of the TV Shows & Movies were released ? Show with Bar Graph.
- Q. 3) How many Movies & TV Shows are in the dataset ? Show with Bar Graph.
- Q. 4) Show all the Movies that were released in year 2000.
- Q. 5) Show only the Titles of all TV Shows that were released in India only.
- Q. 6) Show Top 10 Directors, who gave the highest number of TV Shows & Movies to Netflix ?
- Q. 7) Show all the Records, where "Category is Movie and Type is Comedies" or "Country is United Kingdom".
- Q. 8) In how many movies/shows, Tom Cruise was cast ?
- Q. 9) What are the different Ratings defined by Netflix ?
- Q. 9.1) How many Movies got the 'TV-14' rating, in Canada ?
- Q. 9.2) How many TV Shows got the 'R' rating, after year 2018 ?
- Q. 10) What is the maximum duration of a Movie/Show on Netflix ?
- Q. 11) Which individual country has the Highest No. of TV Shows ?
- Q. 12) How can we sort the dataset by Year ?
- Q. 13) Find all the instances where: Category is 'Movie' and Type is 'Dramas' or Category is 'TV Show' & Type is 'Kids' TV'.

Algorithms&Tools:

The commands that I'll use in this project :

`head()` - It shows the first N rows in the data (by default, N=5).

`tail()` - It shows the last N rows in the data (by default, N=5).

`shape` - It shows the total no. of rows and no. of columns of the dataframe.

`size` - To show No. of total values(elements) in the dataset.

`columns` - To show each Column Name.

`dtypes` - To show the data-type of each column.

`info()` - To show indexes, columns, data-types of each column, memory at once.

`value_counts` - In a column, it shows all the unique values with their count. It can be applied on a single column only.

`unique()` - It shows the all unique values of the series.

`nunique()` - It shows the total no. of unique values in the series.

`uplicated()` - To check row wise and detect the Duplicate rows.

`isnull()` - To show where Null value is present.

`dropna()` - It drops the rows that contains all missing values.

`isin()` - To show all records including particular elements.

`str.contains()` - To get all records that contains a given string.

`str.split()` - It splits a column's string into different columns.

`to_datetime()` - Converts the data-type of Date-Time Column into `datetime[ns]` datatype.

`dt.year.value_counts()` - It counts the occurrence of all individual years in Time column.

`groupby()` - Groupby is used to split the data into groups based on some criteria.

`sns.countplot(df['Col_name'])` - To show the count of all unique values of any column in the form of bar graph.

`max()`, `min()` - It shows the maximum/minimum value of the series. *

`mean()` - It shows the mean value of the series.

You will learn these things also:

Creating New Columns & Dataframe

Filtering (Single Column & Multiple Columns)

Filtering with And and OR

Seaborn Library - Bar Graphs

Is there any Duplicate Record in this dataset ?

If yes, then remove the duplicate records.

Is there any Null Value present in any column ?

Show with Heat-map.

Data Overview:

Show_Id	Category	Title	Director	Cast	Country	Release_Date	Rating	Duration	Type	Description
s1	TV Show	3%		João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Valente, Vaneza Oliveira, Rafael Lozano, Viviane Porto, Mel Fronckowiak, Sergio Mamberti, Zezé Motta, Celso Frateschi	Brazil	August 14, 2020	TV-MA	4 Seasons	International TV Shows, TV Dramas, TV Sci-Fi & Fantasy	In a future where the elite inhabit an island paradise far from the crowded slums, you get one chance to join the 3% saved from squalor.
s2	Movie	7:19	Jorge Michel Grau	Demián Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, Octavio Michel, Carmen Beato	Mexico	December 23, 2016	TV-MA	93 min	Dramas, International Movies	After a devastating earthquake hits Mexico City, trapped survivors from all walks of life wait to be rescued while trying desperately to stay alive.
s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hii, Lawrence Koh, Tommy Kuan, Josh Lai, Mark Lee, Susan Leong, Benjamin Lim	Singapore	December 20, 2018	R	78 min	Horror Movies, International Movies	When an army recruit is found dead, his fellow soldiers are forced to confront a terrifying secret that's haunting their jungle island training camp.

s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher Plummer, Crispin Glover, Martin Landau, Fred Tatasciore, Alan Oppenheimer, Tom Kane	United States	November 16, 2017	PG-13	80 min	Action & Adventure, Independent Movies, Sci-Fi & Fantasy	In a postapocalyptic world, rag-doll robots hide in fear from dangerous machines out to exterminate them, until a brave newcomer joins the group.
s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liza Lapira, Jacob Pitts, Laurence Fishburne, Jack McGee, Josh Gad, Sam Golzari, Helen Carey, Jack Gilpin	United States	January 1, 2020	PG-13	123 min	Dramas	A brilliant group of students become card-counting experts with the intent of swindling millions out of Las Vegas casinos by playing blackjack.

Dataset File:

https://drive.google.com/file/d/1p630pDcSkbQp_WXig8PeEvevZtSo4GQK/view