Exploratory Data Analysis of Netflix Movies and TV Shows

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DSC530-T301 – Term Project

Introduction

Netflix needs no introduction, it is a streaming service that allows members to watch a wide variety of contents like movies, TV shows, documentaries and more. Netflix allows us to enjoy unlimited ad-free viewing of the contents. It was founded in 1997 and has become $100 billion company in 20 years.

The number of movies has decreased by over 2,000 titles since 2000 while the number of TV shows has nearly tripled.

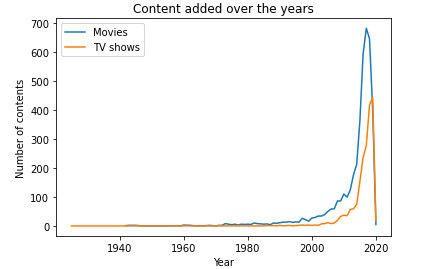
Some important variables will be analyzed to perform exploratory data analysis and also predict the number of Movies and TV shows that will be added in 2020.

Statistical or Hypothetical questions

* Analyze the contents available in different countries and see which countries produce more movies and TV shows.
* In which month are the contents added more?
* What is the duration of the contents?
* What are the top categories or genre?
* What are the types of contents and their rating?
* How many contents will be added in 2020?

Outcome of EDA

* Below shows content added over the years. Note that year 2020 shows a drop due to few data available in dataset for this year.

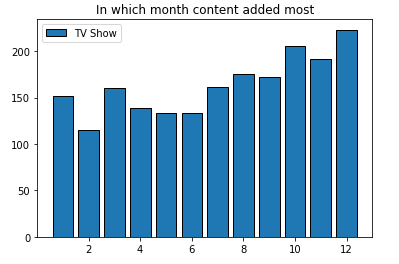
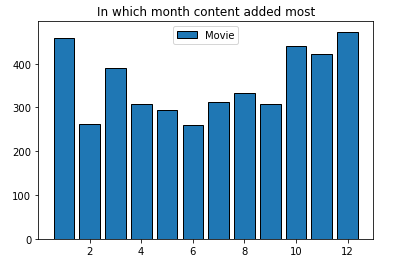


* Contents present in United States are more than any other country.

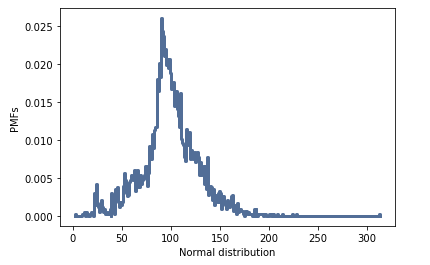
![A screenshot of a social media post

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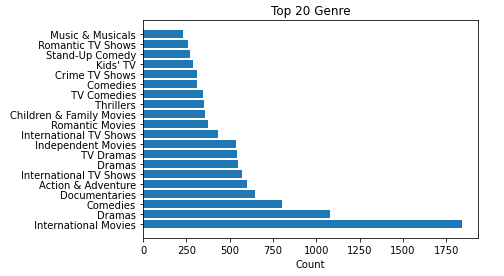
* More number of contents are added in second half of the year.



* Average duration for Movies is 100 minutes.



* The top genre is International Movies. It could one of the reasons why Netflix is very popular in many countries. Users get chance to watch contents from various countries at single place.

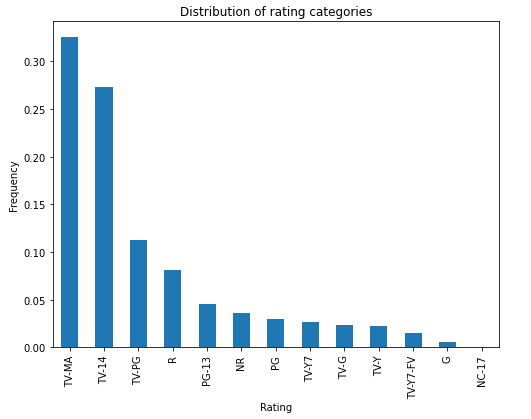


* Below are what top categories mean:

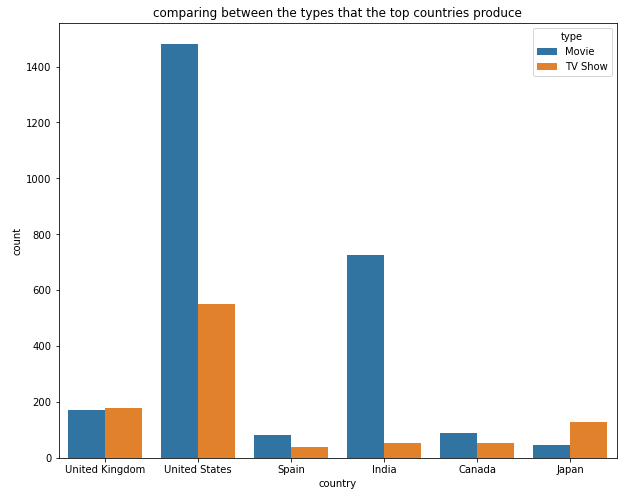
TV-MA: This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.

TV-14: This program contains some material that many parents would find unsuitable for children under 14 years of age.

TV-PG: This program contains material that parents may find unsuitable for younger children.



* It is interesting to note that UK and Japan have more TV shows than Movies.



* Based on the prediction, 2,014 Movies and 933 TV Shows will be added in 2020.

One variable that I felt missing in IMDB ratings value. It would be good to analyze the IMDB ratings of Netflix contents. I found it little challenging to plot hypothesis test with this data. Did some additional research about the variables and came up with CDF plot.

References:

Downey, A. B. (2015). *Think Stats:* Beijing: OReilly.

<https://www.kaggle.com/shivamb/netflix-shows>