SMART INTERNZ

IBM HACK CHALLENGE 2021

Title of the Project : OTT Platform Analysis Tool

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INTRODUCTION

1.1 Overview:

To analyze different OTT platforms and provide useful information for people who are not able to decide which platform fits them best. We made a chatbot which helps the user to get a suggestion of a good movie from various OTT platforms.

1.2 Purpose:

With overabundance of information and multiple criteria to compare various OTT platforms, it has become increasingly difficult for users to find the best fit for their tastes. We analyze all the OTT platforms and gives a clear analysis of it so the user can select the best. Even it helps the people in film business and get a clear idea of the OTT platforms.

LITERATURE SURVEY

2.1 Existing problem:

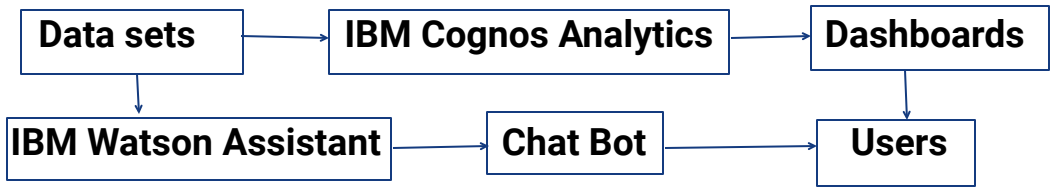
The way we consume videos has undergone massive changes. Now we have multiple OTT platforms such as Netflix, Amazon Prime Video, and Disney+ to stream TV shows and movies online. With overabundance of information and multiple criteria to compare various OTT platforms, it has become increasingly difficult for users to find the best fit for their tastes.

2.2 Proposed solution:

We investigated different OTT platform data sets to provide users with insights into each platform to determine which services to subscribe to. Amongst multiple factors affecting online streaming subscriptions, we mainly analyzed number of movies, web series, TV shows, rating and language.

THEORITICAL ANALYSIS

3.1 Block diagram:



3.2 Software designing:

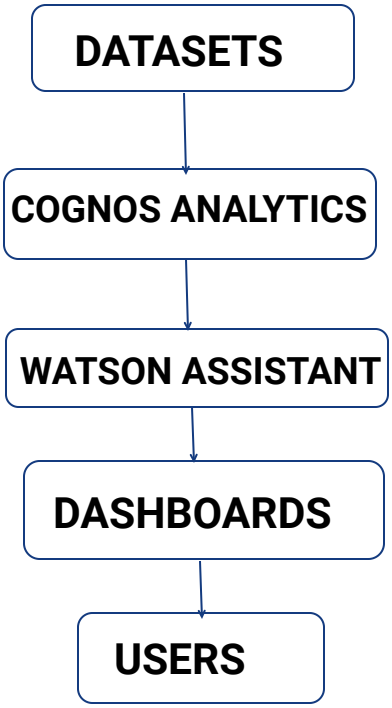
Hardware and software requirements of the project:

1.) IBM Initiative Account
2.) IBM Cognos Analytics
3.) IBM Watson Assistant
4.) Visual Studio Code(To make a website)

EXPERIMENTAL INVESTIGATIONS

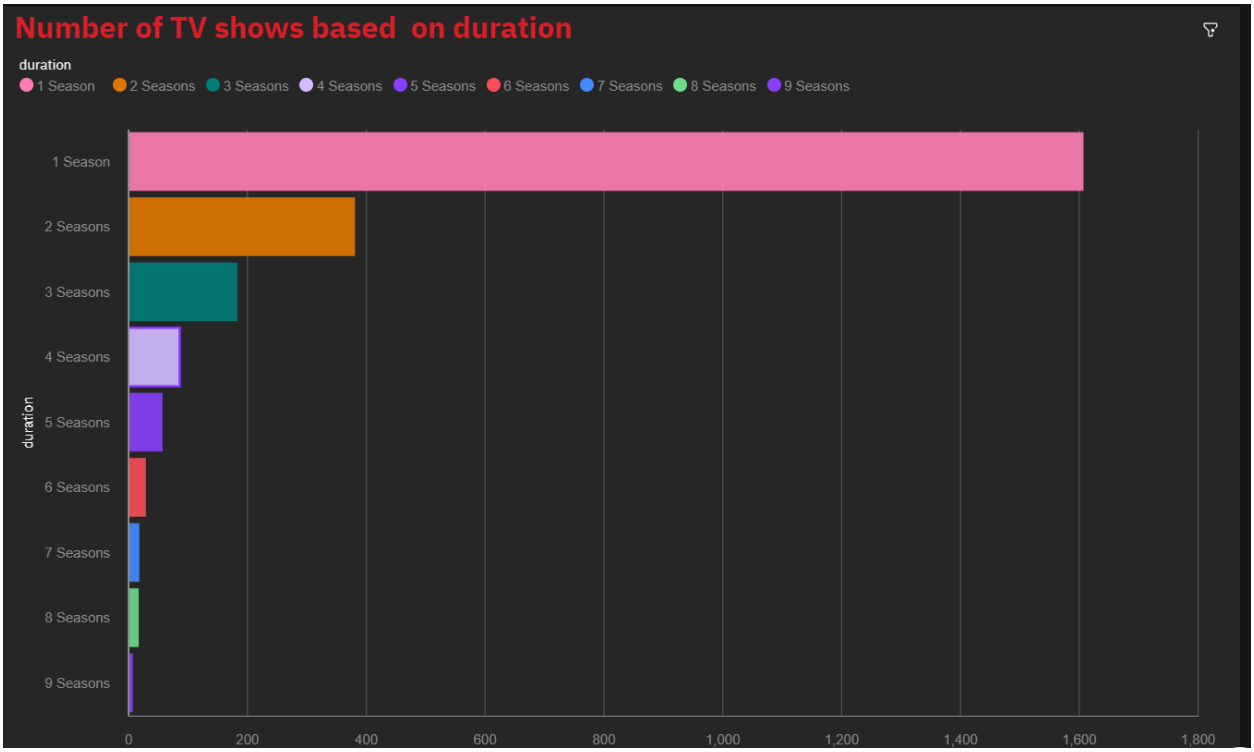
Went through IBM cloud for the enterprise, Enterprise Data Science and Enterprise grade AI and spent most of the time in analysing the data sets. Learnt many things about the technologies and tools provided by IBM.

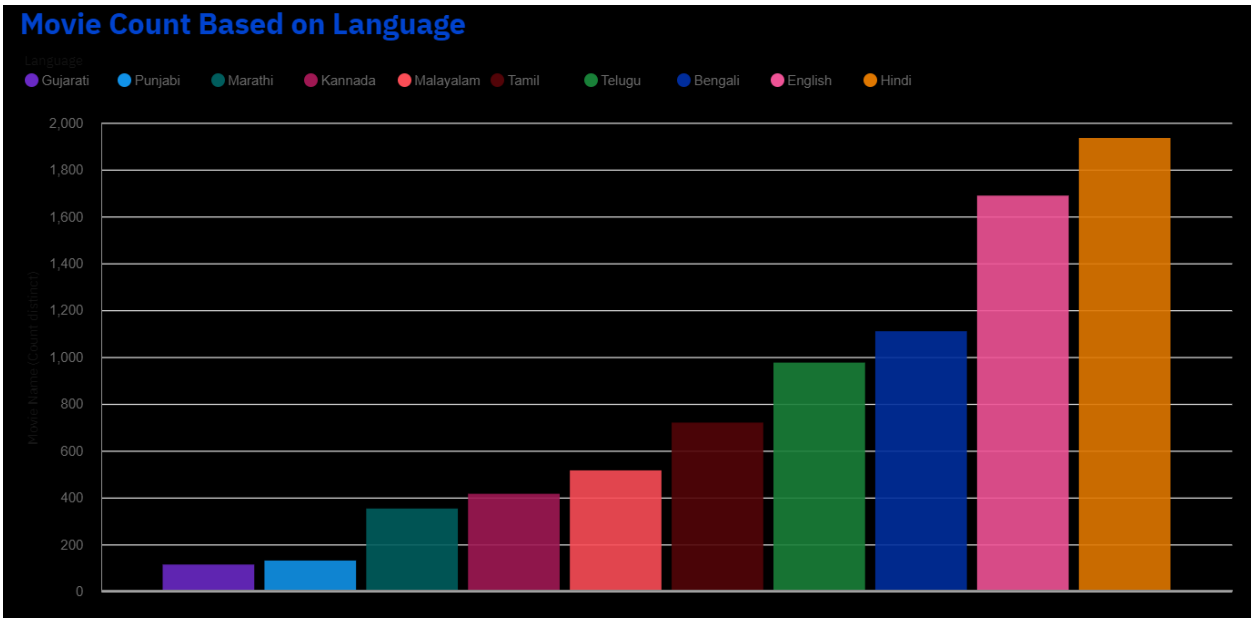
FLOWCHART

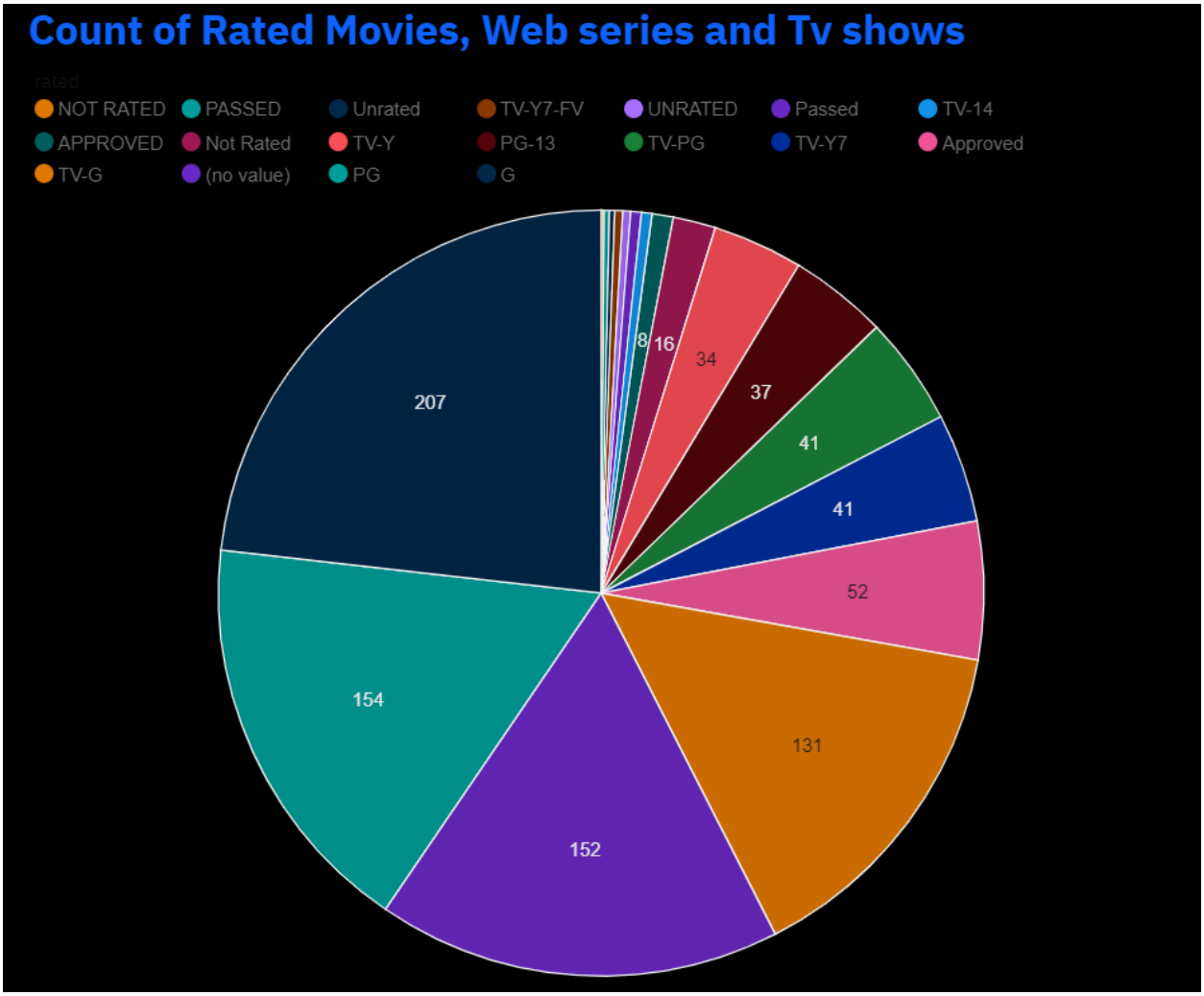


RESULT

We discovered distinct characteristics of each OTT platform. From age analytics, we identified that Netflix had overwhelming TV-MA films compared to other platforms. Amazon Prime had almost even distribution of different maturity rating films. Disney+ had no movies rated TV-MA and had only those rated TV-PG or TV-G. The result suggests which platforms to subscribe to depending on the age group of films the users would like to see more. From genre analytics, we discovered that Netflix and Amazon Prime had similar distribution. They both had drama, comedy, and action the most. Nonetheless, Netflix had the most diverse content across all genres. Although Disney+ had much less content compared to the other two, it was the strongest in family, action. Below are some of the analysis on netflix, prime and hotstar respectively.




Movie Count Based on Language
Language
Gujarati
Punjabi
Marathi
Kannada
Malayalam
Tamil
Telugu
Bengali
English
Hindi
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0


Count of Rated Movies, Web series and Tv shows
rated
NOT RATED
PASSED
Unrated
TV-Y7-FV
UNRATED
Passed
TV-14
APPROVED
Not Rated
TV-Y
PG-13
TV-PG
TV-Y7
Approved
TV-G
(no value)
PG
G
207
154
152
131
52
41
41
37
34
16
8

ADVANTAGES & DISADVANTAGES

Advantages:

1.) Helps the user to get a quick overview on each OTT platform.
2.) Helps the user to find a good movie very quickly.
3.) Helps the producers of movies.

Disadvantages:

1.) The data must be updated everytime.
2.) Analysis gets changed frequently.
3.) Data handling is difficult.

APPLICATIONS

1.) Movie producers who are going to launch the movie in OTT.
2.) OTT platforms can track the data easily.
3.) Movie Suggestions.

CONCLUSION

We identified that Netflix had overwhelming TV-MA films compared to other platforms. Amazon Prime had almost even distribution of different maturity rating films. Disney+ had no movies rated TV-MA and had only those rated TV-PG or TV-G. The result suggests which platforms to subscribe to depending on the age group of films the users would like to see more. From genre analytics, we discovered that Netflix and Amazon Prime had similar distribution. They both had drama, comedy, and action the most. Nonetheless, Netflix had the most diverse content across all genres. Although Disney+ had much less content compared to the other two, it was the strongest in family, adventure, and animation films. From genome-tag analytics, we could test our goodness of analytics. Our discoveries in the movieLens analysis were mostly in line with the results we found through the genre analytics. Netflix and Amazon had a similar trend of having tags related to drama, comedy, and action while Disney+'s tags were more focused on animated films.

FUTURE SCOPE

Due to the smaller size of the dataset for original films, partly since the data was limited to films released till 2021, we believe that further analysis would be necessary with the addition of recent movies in order to provide a more accurate picture.

BIBILOGRAPHY

https://www.netflix.com/in/
https://www.primevideo.com/
https://www.hotstar.com/in
https://youtube.com/smartinternz