UMass | Dartmouth

CIS 568 – DATA VISUALIZATION

GROUP-5 PROJECT

ANALYSIS FOR TV SHOWS

BY

SADHANA BURLA (02069182)
SREEYA NIMMAGADDA (02040498)

Table of Contents:

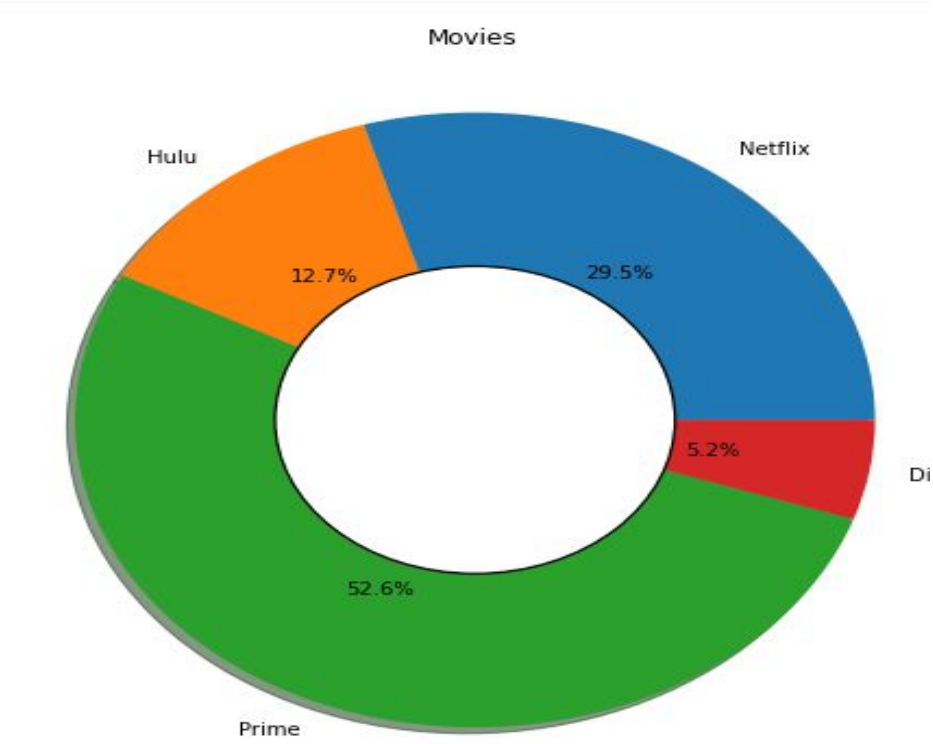
Introduction

The dataset we have collected from Kaggle will contains many TV shows from the Netflix, Hulu, Disney and prime video streaming services. In contains the information of name of TV shows, age, group, IMDB rating, TV show produced year. For rating purpose, we have selected some stop words from data set. We have created app using D3.js which contains TMDB reviews where reviews include title of movie, Release date, vote count, vote average, genres.

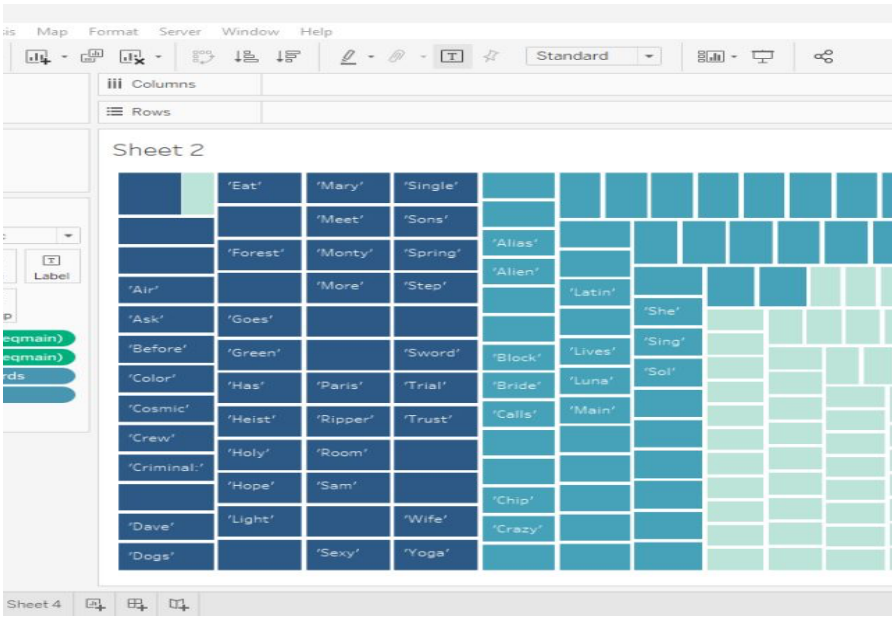
- Analyze the title names of TV shows.
- Title word frequency
- Analyze numeric Data which contains general timelines of TV show production.
- IMDB data rating for best and worst rating shows.
- Cluster based on TV show rating.
- Release year Vs number of movies count
- Analysis based on IMDB for each platform and titles.
- Analysis of TMDB reviews based on release date, vote count, vote average and genres.

Tuftes principles:

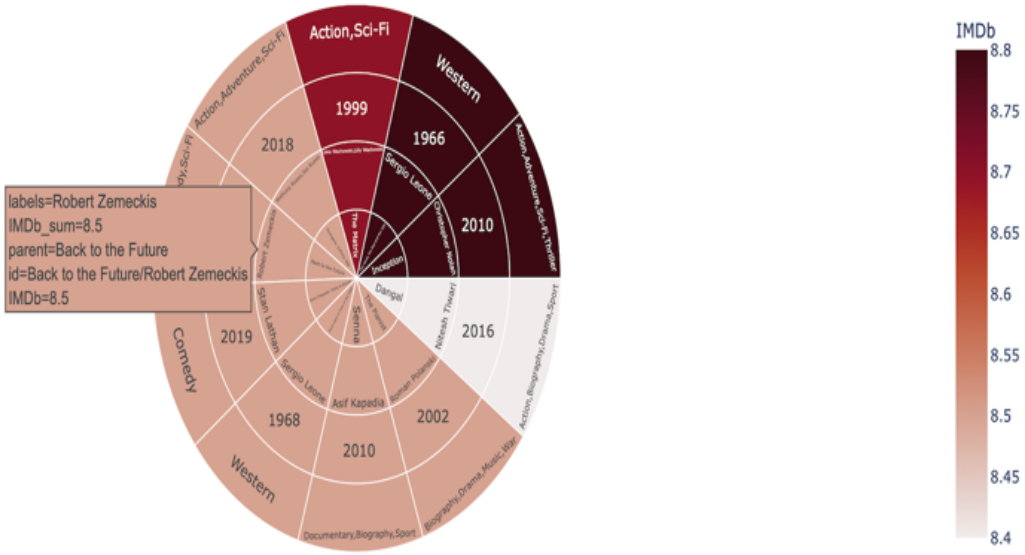
- **Comparisons:** Here we have compared data for different platforms like Hulu, Netfliex, prime, Disney. Initially we have compared different movies platforms with years. Next, frequency of stop words where we compared the stop words with movie titles. Next, we recommend the movies based on movie type and year of release.
- **Causality:** According to our project we have independent variables like movie titles, release year, platforms etc. all the comparisons we made are depended on the different variables like IMDB rating and genres are based on title of movie.
- **Integration:**
  1. Movies released in different platforms:



2. Frequency of stop words in movie titles:



3. Movie Recommendations:



Design:

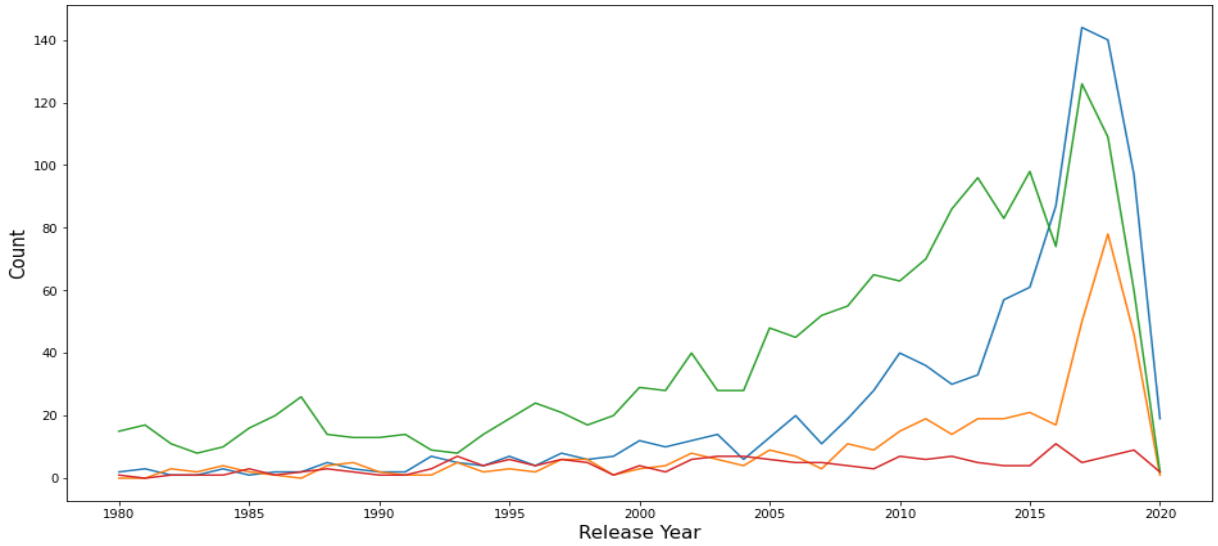


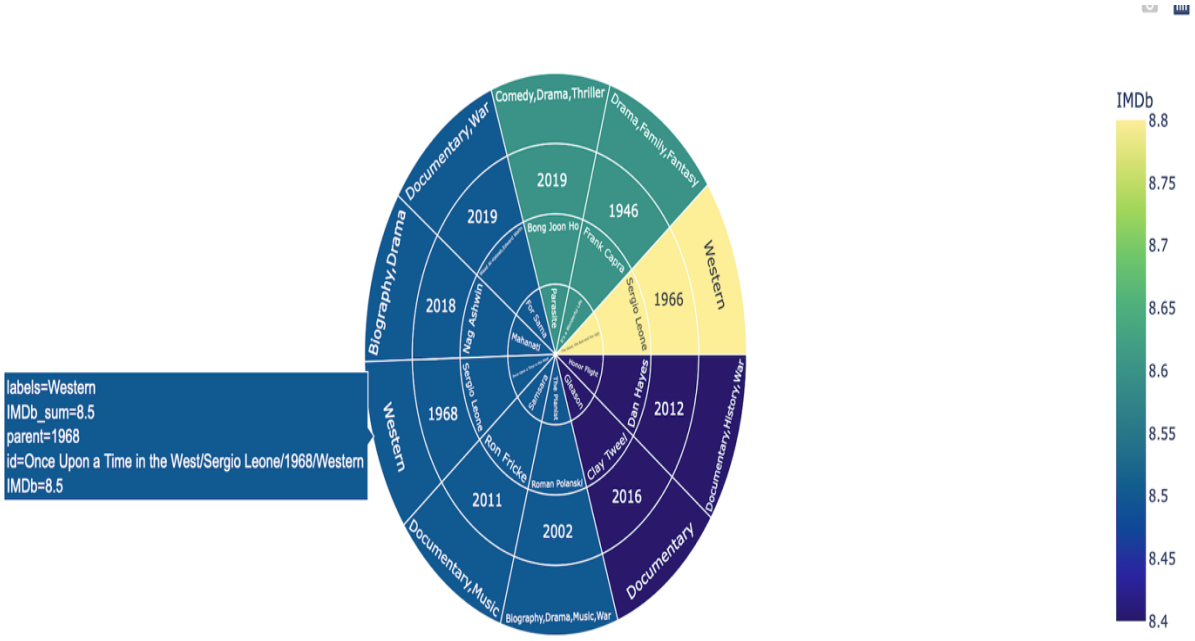
Figure [1]

In figure[1], we have compare the movie releasing year to the count of movies in different platforms using line chart . According to the figure[1] it is showing Hulu has the highest count.

	Title	IMDb	Netflix	Hulu	Prime Video
3560	The Dark Knight	9.000000	0	1	0
0	Inception	8.800000	1	0	0
4	The Good, the Bad and the Ugly	8.800000	1	0	1
16213	Star Wars: The Empire Strikes Back	8.700000	0	0	0
1	The Matrix	8.700000	1	0	0
3561	GoodFellas	8.700000	0	1	0
3564	The Green Mile	8.600000	0	1	0
3562	Parasite	8.600000	0	1	1
16212	Star Wars: A New Hope	8.600000	0	0	0
4439	It's a Wonderful Life	8.600000	0	0	1
3	Back to the Future	8.500000	1	0	0
275	Dave Chappelle: Sticks & Stones	8.500000	1	0	0
47	Senna	8.500000	1	0	0
6	The Pianist	8.500000	1	0	1
4591	Mahanati	8.500000	0	0	1
2	Avengers: Infinity War	8.500000	1	0	0
3566	Grave of the Fireflies	8.500000	0	1	0
4511	For Sama	8.500000	0	0	1
15	Once Upon a Time in the West	8.500000	1	0	1
4507	Samsara	8.500000	0	0	1

Figure[2]

In Figure [2], we have used bar plot which has the comparisons for IMDB rating with different platforms and gives the highest rating.



Figure[3]

In Figure[3], from IMDB rating we have made sunburst chart for Hulu platform where we have the data like title, year, Director, genres.

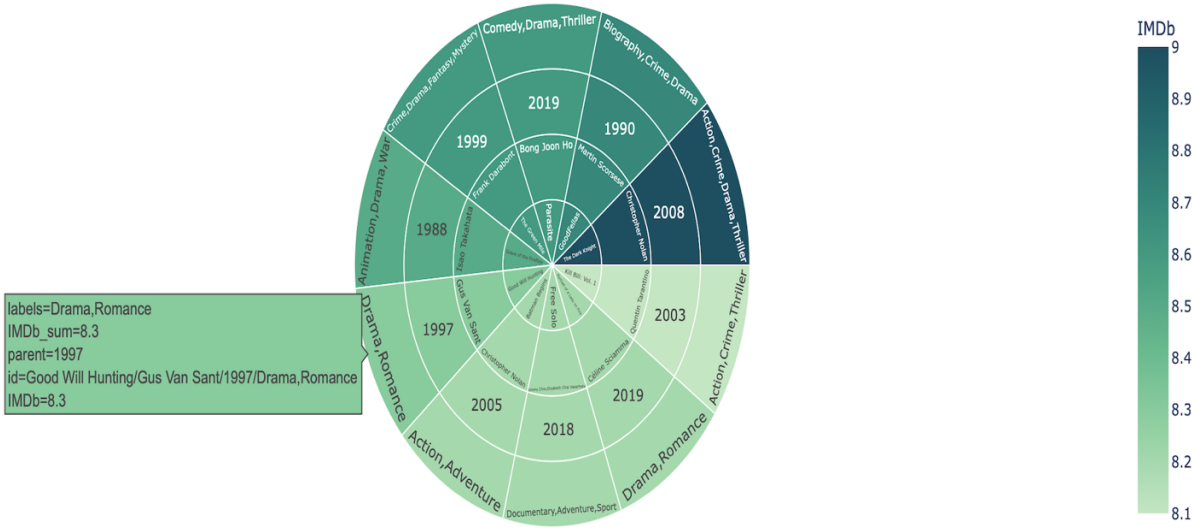
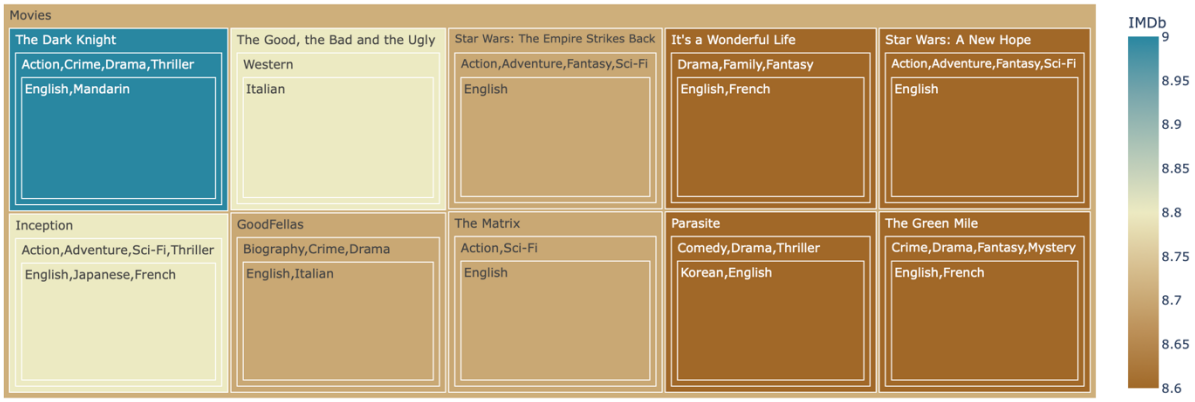


Figure [4]

In Figure [4], from IMDB rating we have made sunburst chart for prime video platform where we have the data like title, year, Director, genres.



Figure[5]

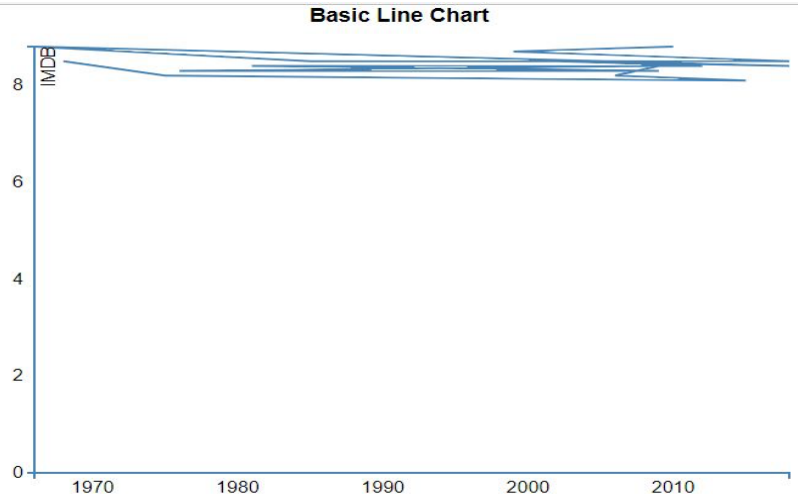
In Figure[5], from IMDB rating we have made tree map where we have data like titile,genres and language using D3 js.

May 2022 top

TITLE	RELEASE/DATE	VOTE/COUNT	VOTE/AVERAGE	GENRES
The Quintessential Quintuplets Movie	2022-12-02	119	9	Animation, Comedy, Romance
The Bob's Burgers Movie	2022-05-27	182	7	Animation, Adventure, Comedy
Good Mourning	2022-05-20	20	6	Comedy
Emergency	2022-05-20	150	6.1	Comedy, Drama, Thriller
Dinner in America	2022-05-27	10	7	Comedy, Drama, Music
How to Please a Woman	2022-07-22	11	6.5	Comedy
Mascarpone	2022-05-06	15	5.2	Drama, Comedy
Family Camp	2022-05-13	16	5.1	Comedy, Family
On The Count Of Three	2022-05-13	35	6.6	Comedy, Drama
Suicide for Beginners	2022-05-06	7	4.4	Comedy, Horror
Tankhouse	2022-05-13	3	3.3	Comedy
Movers Ultimate	2022-05-19	4	5.8	Comedy
An Afternoon At The Beach	2022-05-17	0	0	Comedy
18½	2022-05-27	4	6	Thriller, Comedy, Drama
My Butt Has a Fever	2022-05-06	3	8.3	Animation, Comedy
SCREAMIN' in the PHILIPPINES: The Legend of the Loudest Kano	2022-05-09	0	0	Comedy, Adventure
Blunt News	2022-05-01	0	0	Comedy
How To Sex Your Cannabis	2022-05-20	0	0	Comedy
Fishing Boy	2022-05-10	0	0	Comedy
Escaping Ohio (the short)	2022-05-25	0	0	Comedy, Drama, Romance

Figure[6]

In Figure [5], According to the data in TMDB, we have may month report with title, release date, vote count, vote average and genres.



Figure[7]

In Figure[7], we have compared the movie releasing year to IMDB from TMDB data base using line chart in D3.js

Discussion:

- Here, we have achieved goals from phase-I to current work. In phase-I, we have done tableau work for comparisons of IMDB data with various case scenarios. In phase-II, we have completed python code for movie recommendation system. In current phase we have done with D3.js movie comparison in TMDB data.
- In further as extension of this project we can change it to charts with comparing same data.