



Analytics on Movies & TV Shows in streaming platforms

**15MSSL10 – BUSINESS INTELLIGENCE
LABORATORY**

CONTINUOUS ASSESSMENT TEST - 02

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MSc Software Systems



Objective :-

- ✚ The objective is to analyze the details of Movies and TV shows streamed in OTT platforms to provide various reports and build a Data Dashboard to improve the timeliness and quality of inputs to the decision processes.

OTT Platforms :-

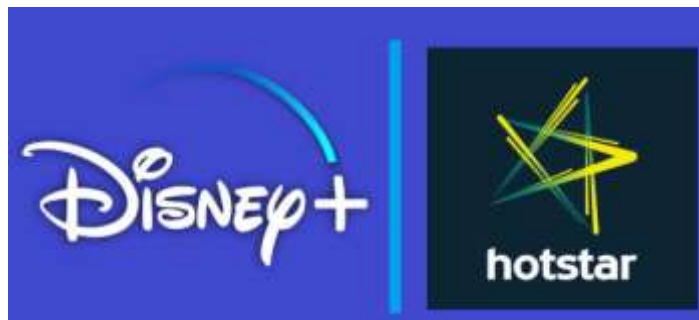
+ Netflix



+ Amazon Prime Video



+ Disney+ Hotstar





Datasets :-

+ List of Datasets :

- Netflix shows
- Amazon prime movies and TV shows
- Disney movies and TV shows



Dataset Description : Netflix shows

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

```
In [4]: # FINDING THE DIMENSION(NO.OF.ROWS AND COLUMNS)
data.shape
```

```
Out[4]: (5368, 12)
```

```
In [9]: # LISTING DOWN THE ATTRIBUTES AVAILABLE IN DATASET
data.columns
```

```
Out[9]: Index(['Unnamed: 0', 'ID', 'Title', 'Year', 'Age', 'IMDb', 'Rotten Tomatoes',
              'Netflix', 'Hulu', 'Prime Video', 'Disney+', 'Type'],
              dtype='object')
```



Dataset Description : Netflix shows (contd)

```
In [12]: #FINDING THE NO.OF.BLANK CELLS COLUMN WISE  
data.isnull().sum()
```

```
Out[12]: Unnamed: 0          0  
ID          0  
Title       0  
Year        0  
Age         2127  
IMDb        962  
Rotten Tomatoes  0  
Netflix     0  
Hulu        0  
Prime Video  0  
Disney+     0  
Type        0  
dtype: int64
```

Dataset Description : Amazon prime movies and TV shows



- LINK : <https://www.kaggle.com/datasets/shivamb/amazon-prime-movies-and-tv-shows>

```
In [15]: # FINDING THE DIMENSION(NO.OF.ROWS AND COLUMNS)
         data.shape
```

```
Out[15]: (8127, 7)
```

```
In [16]: # LISTING DOWN THE ATTRIBUTES AVAILABLE IN DATASET
         data.columns
```

```
Out[16]: Index(['Movie Name', 'Language', 'IMDb Rating', 'Running Time',
               'Year of Release', 'Maturity Rating', 'Plot'],
              dtype='object')
```



Dataset Description : Amazon prime movies and TV shows (contd)

```
In [21]: #FINDING THE NO.OF.BLANK CELLS COLUMN WISE  
data.isnull().sum()
```

```
Out[21]: Movie Name      0  
         Language      0  
         IMDb Rating    0  
         Running Time   0  
         Year of Release 0  
         Maturity Rating 0  
         Plot           5  
         dtype: int64
```


Dataset Description : Disney movies and TV shows



- LINK : <https://www.kaggle.com/datasets/shivamb/disney-movies-and-tv-shows>

```
In [24]: # FINDING THE DIMENSION(NO.OF.ROWS AND COLUMNS)
data.shape
```

```
Out[24]: (992, 19)
```

```
In [25]: # LISTING DOWN THE ATTRIBUTES AVAILABLE IN DATASET
data.columns
```

```
Out[25]: Index(['imdb_id', 'title', 'plot', 'type', 'rated', 'year', 'released_at',
               'added_at', 'runtime', 'genre', 'director', 'writer', 'actors',
               'language', 'country', 'awards', 'metascore', 'imdb_rating',
               'imdb_votes'],
              dtype='object')
```

Dataset Description : Disney movies and TV shows (contd)



```
In [29]: #FINDING THE NO.OF.BLANK CELLS COLUMN WISE  
data.isnull().sum()
```

```
Out[29]: imdb_id      98  
         title        98  
         plot        126  
         type         98  
         rated       250  
         year         98  
         released_at  118  
         added_at     0  
         runtime      154  
         genre        107  
         director     303  
         writer       249  
         actors       122  
         language     127  
         country      123  
         awards       436  
         metascore    700  
         imdb_rating   113  
         imdb_votes    113  
         dtype: int64
```

Tools & Technologies :-

TOOLS :

- ❖ Microsoft Excel
- ❖ Power BI
- ❖ Jupyter Notebook
- ❖ Alteryx



TECHNOLOGY :

- ❖ Python





Dashboard :-

- + Which streaming platform(s) can I find this movie or TV show on?
- + Target age group movies or TV shows vs. the streaming application they can be found on
- + The year during which a TV show was produced and the streaming platform they can be found on
- + Genre count and average ratings of OTT platforms

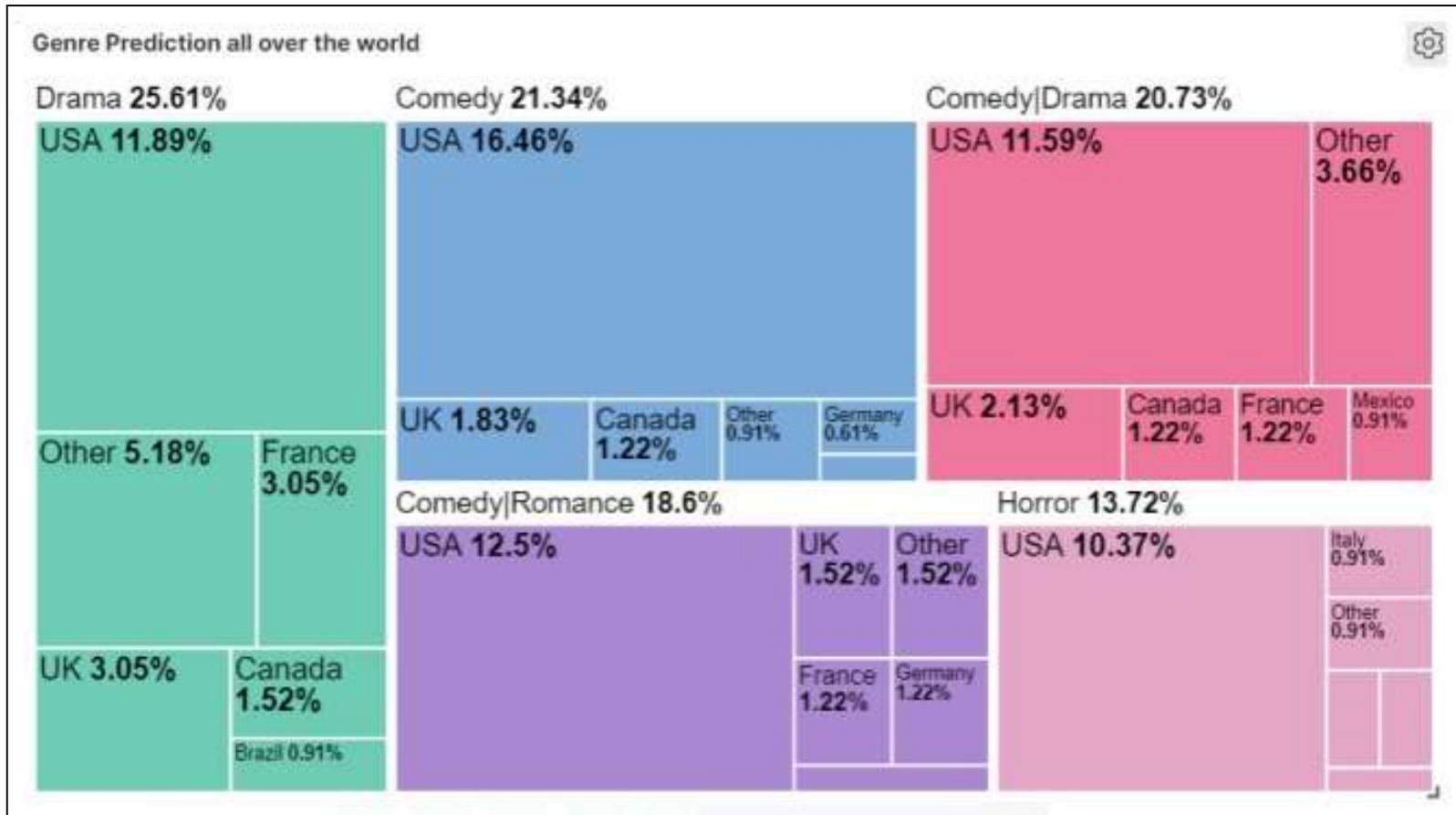


Dashboard (contd) :-

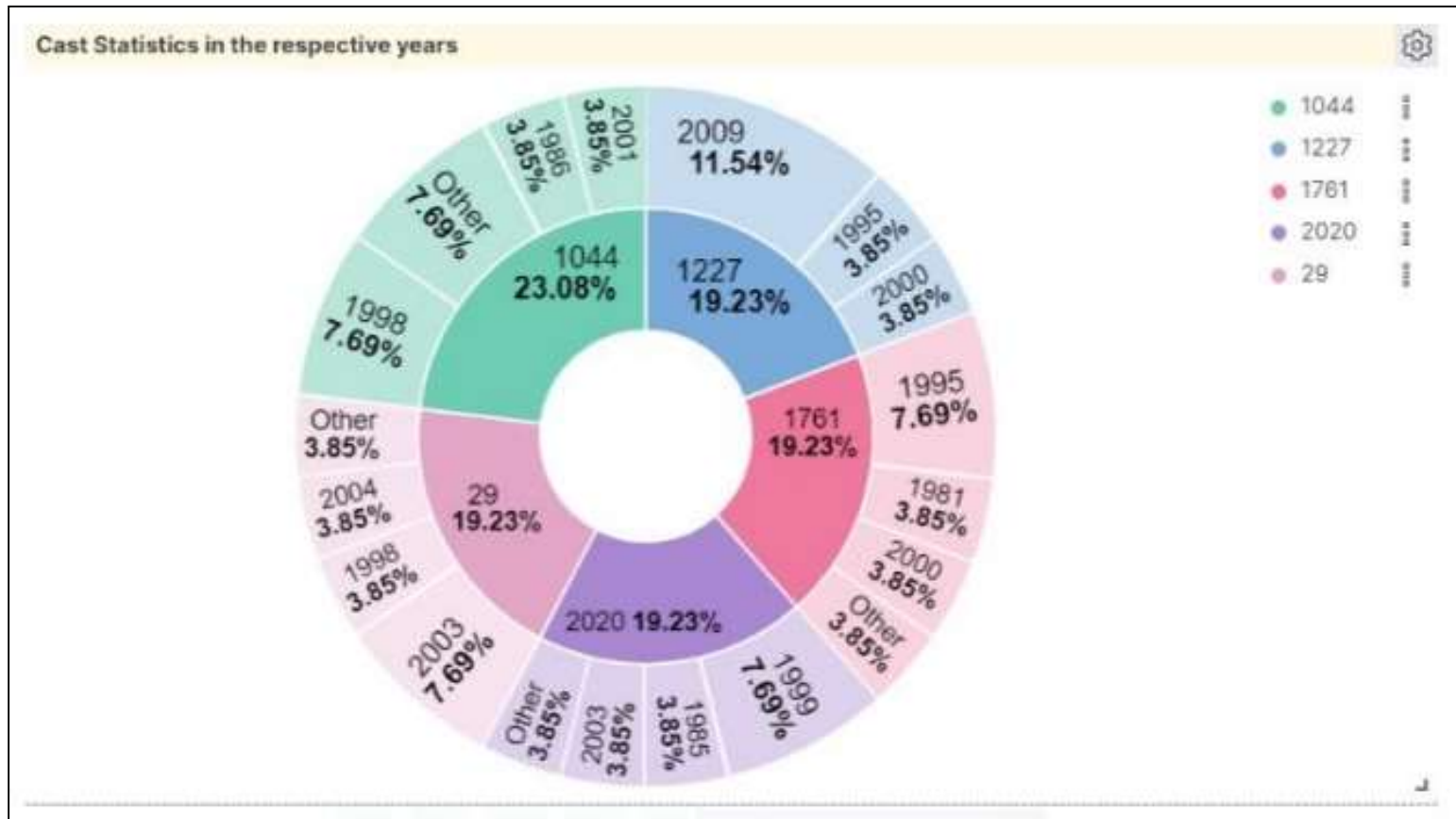
- ✚ How did the streaming platforms come into existence and what is the timeline?
- ✚ Top platforms and their geographical spread
- ✚ Top rated content on this platforms and their IMDB rating by genres across Movies and TV Shows
- ✚ A few trivia that are good to know



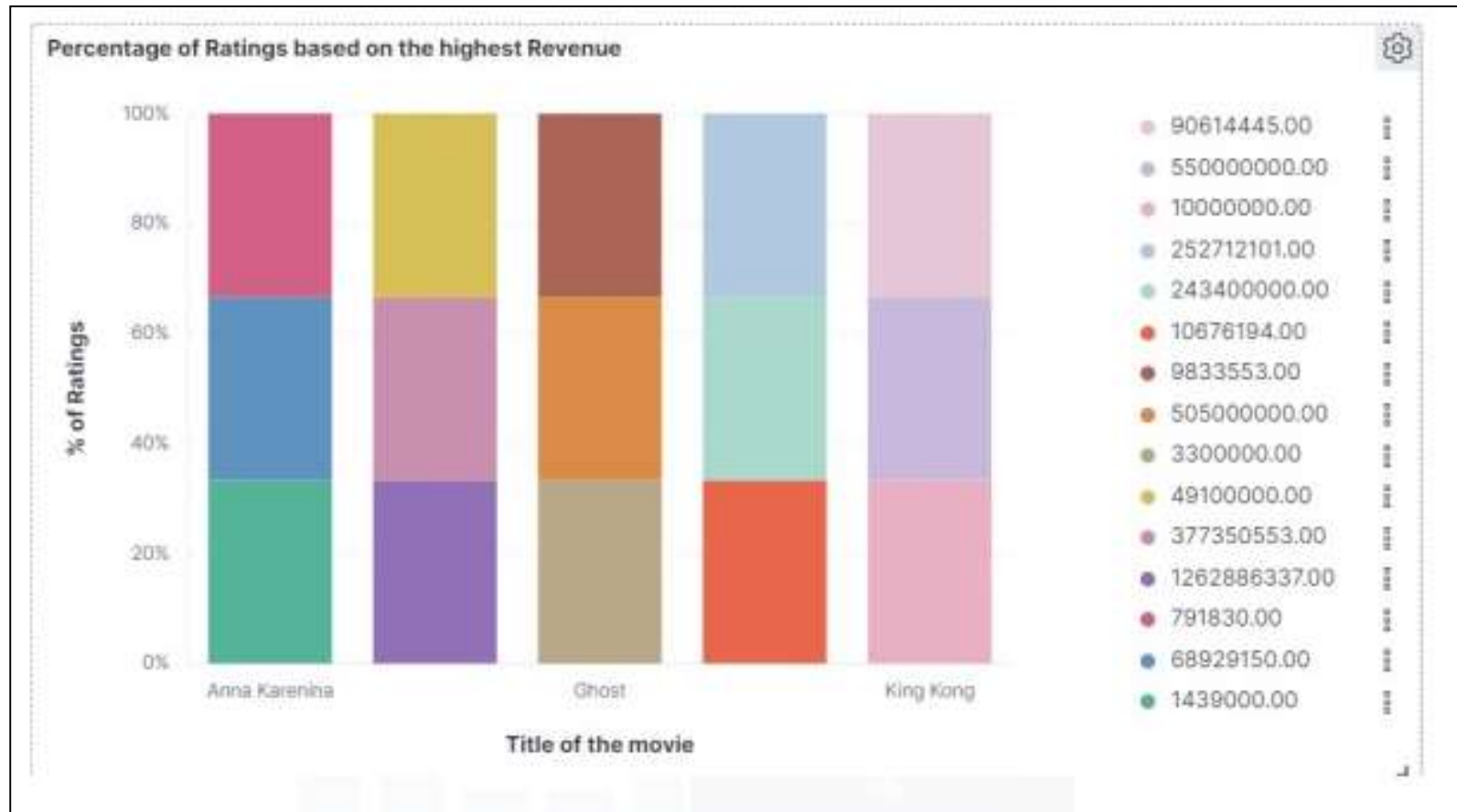
Dashboard Outline :-



Dashboard Outline (contd):-



Dashboard Outline (contd):-





Thank You !