

# TV SHOWS ANALYSIS

BY

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# INTRODUCTION: -

We all love to spend our free time watching TV shows. Therefore, I have decided to explore a dataset of TV shows on the basis of various platforms such as Netflix, Prime Video, Disney+, Hulu, etc. This dataset contains a large number of TV shows from the mentioned platforms. After understanding this dataset, we will clean it by removing duplicate values and handling missing values. Then, I will analyze the data using statistical and analytical techniques. After that, I will visualize this data based on online platforms, Age , TV Show counts, IMDb ratings, etc.

# WORKFLOW :-

- I divide my workflow into 3 steps.



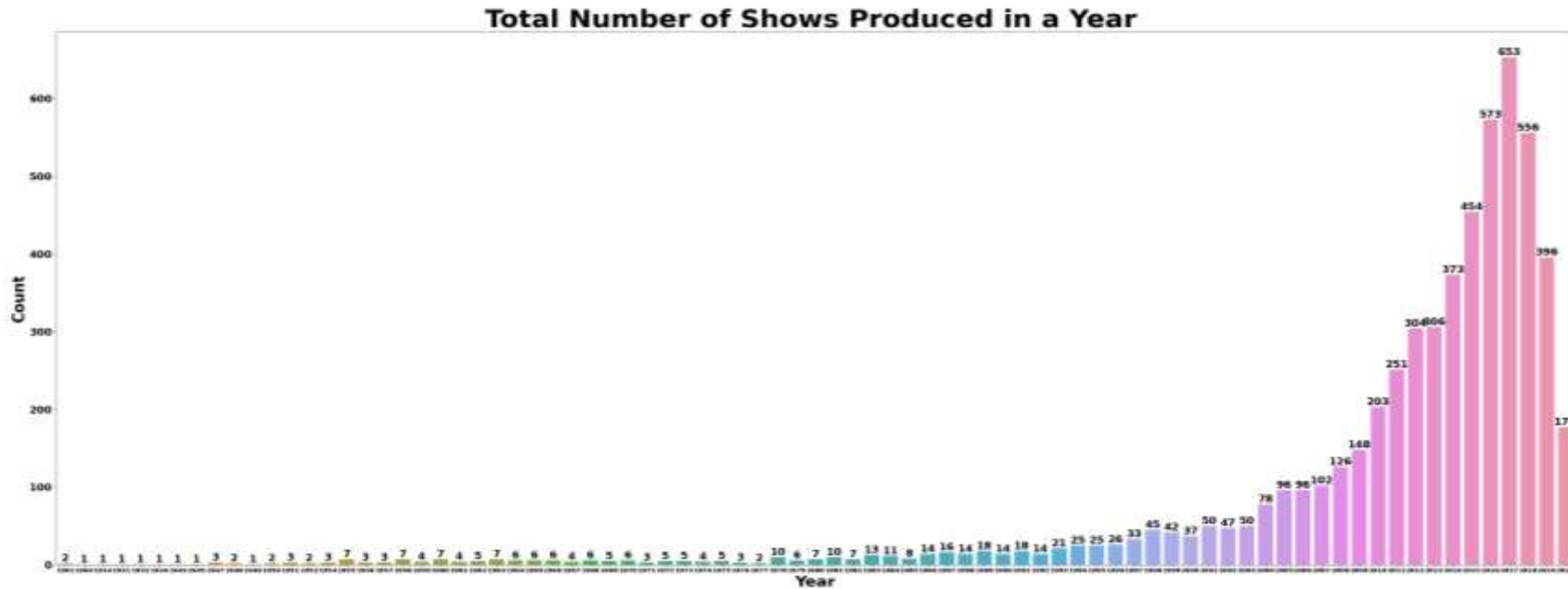
# Data Collection and Understanding

- Data collection and understanding are very important . So I have TV Shows data that I get from “ git-hub ” website . It contains 5611rows and 11 columns. Let's understand the columns.
- Data Descriptions:
  - Title: it contains TV Shows.
  - Year: It contains Year.
  - Age+: Age of the target audience.
  - IMDB: It shows IMDB Ratings.
  - Streaming platforms like Netflix, Prime Video, Hulu, and Disney+ use values to indicate the presence of TV shows: a value of 1 means it contains TV shows, while a value of 0 means it does not contain any TV shows.

# Data Cleaning and Manipulating

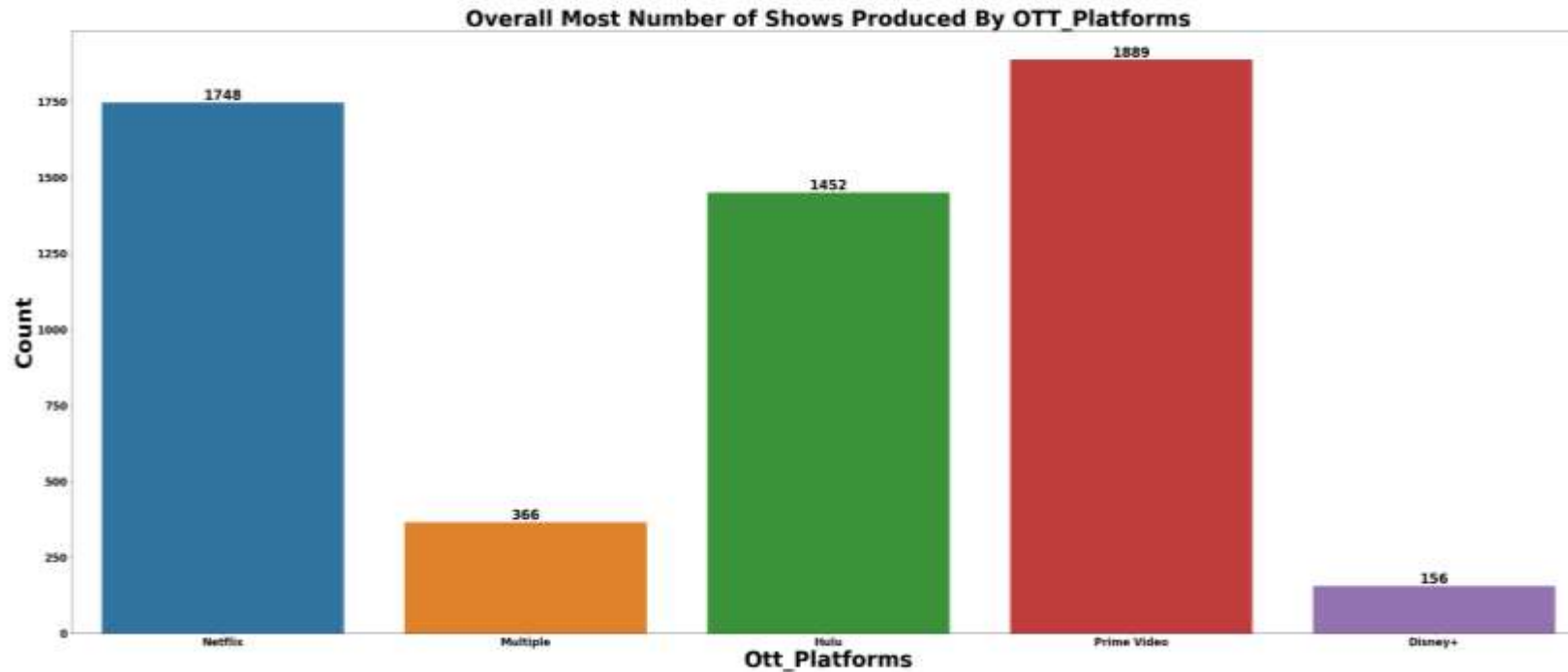
- Given Data has 13% missing values.
- These are the few columns in this dataset that have missing values: Age, IMDB, and Rotten Tomatoes.
- There are 43% missing values in the Age column, 20% in the IMDB column, and 80% in the Rotten Tomatoes column.
- I removed the Rotten Tomatoes column because it had 80% missing values.
- I dropped two more columns, 'Unnamed: 0' and 'type', because they contained unwanted data.
- I arranged the data types of a column in a structured format.
- I replaced the missing values in the Age and IMDB columns with the mean values of those respective columns."
- I created a new column named ' OTT \_ Platforms ' using a user-defined function. It counts the total shows across different streaming platforms and provides the names of those platforms.

# Exploratory Data Analysis:-



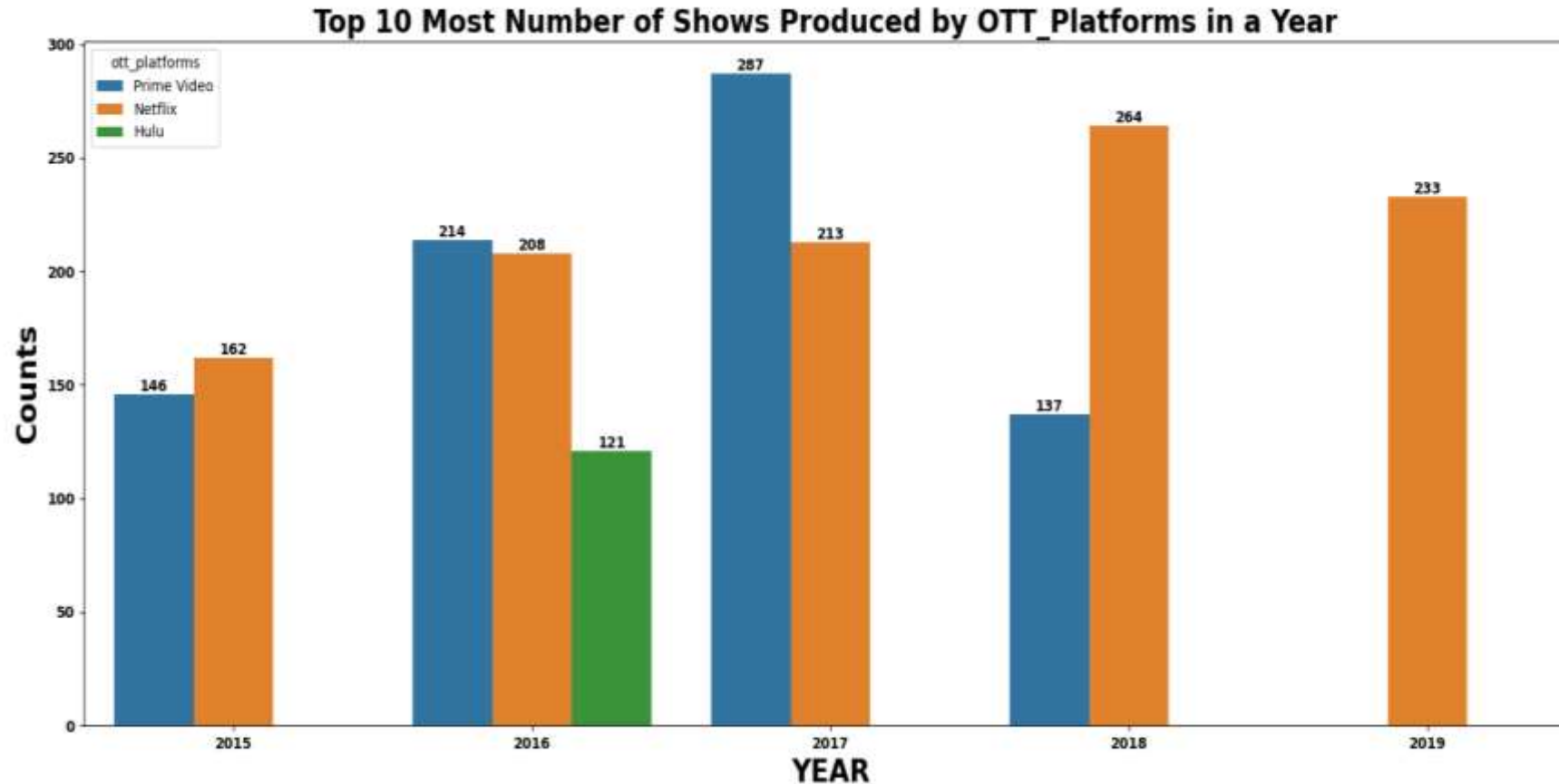
## ➤ Conclusions:

- 1-The period between 2010 and 2020 saw the highest number of TV shows produced. This suggests that TV show production significantly increased over this decade.
- 2- In 2017, there were 653 TV shows produced. This is a specific data point indicating that this year saw a particularly high volume of TV show productions.



## ➤ Conclusions:

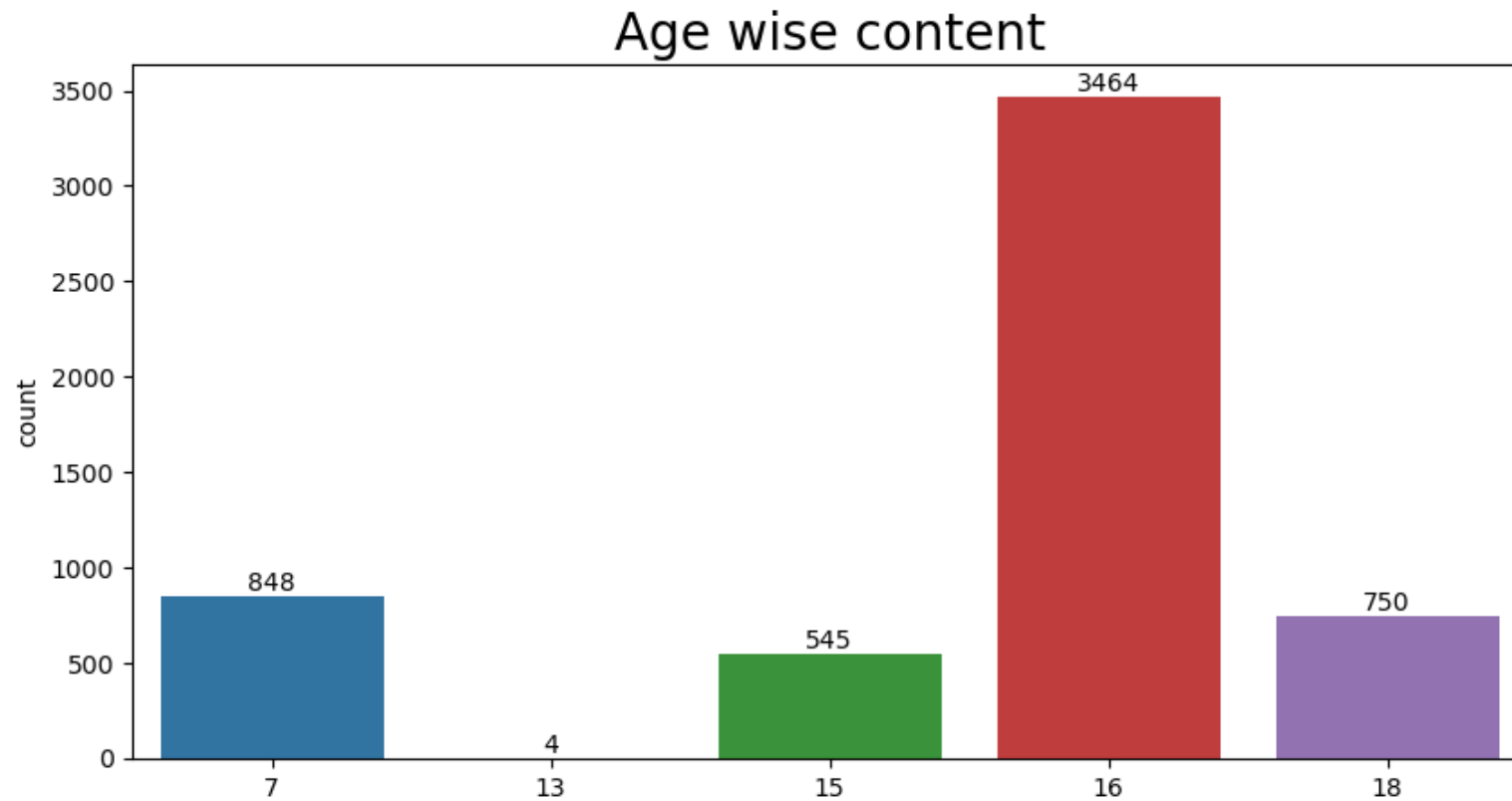
- 1- **Prime Video** led the production of TV shows between 2010 and 2020 with 1,889 shows, indicating a strong presence in the TV show market.
- 2- **Netflix** followed closely with 1,748 shows, showing its substantial contribution to TV production as well.
- 3- **Disney+** had the fewest productions among these platforms, with only 156 shows, which might reflect its relatively newer entry into the market or a different focus in its content strategy.



## ➤ Conclusions:

- 1- **2017** was a significant year for TV show production, with **Prime Video** producing **287** shows and **Netflix** producing **213** shows.
- 2- These numbers indicate that both platforms were highly active in 2017, contributing to a large portion of the TV show content that year.

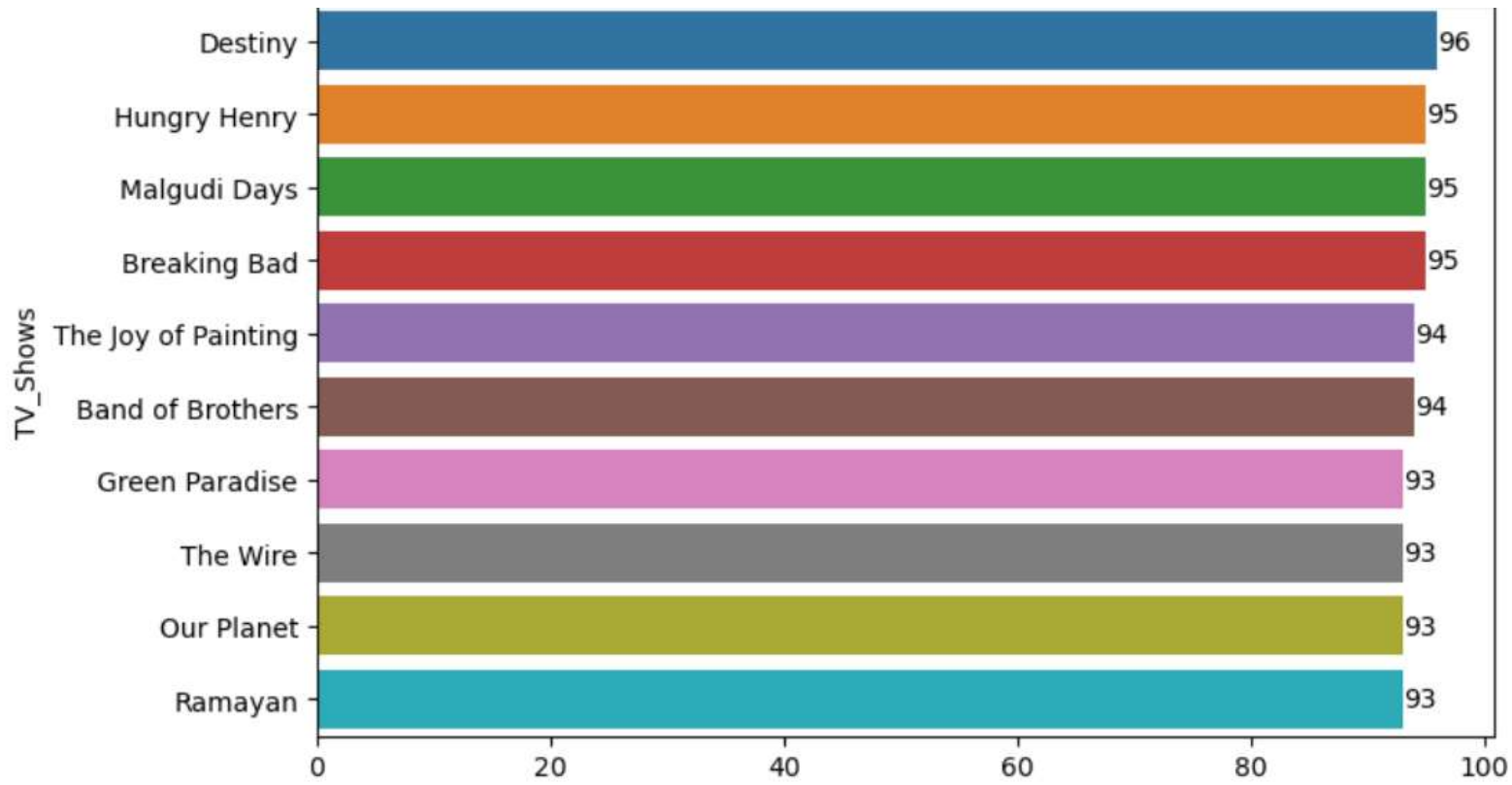




## ➤ Conclusions:

- 1-The maximum number of TV shows produced for an audience aged **16 and older** is around **3,464**.
- 2-This indicates that a significant portion of TV show content is targeted at young adults and older teenagers, suggesting a strong focus on this demographic by the producers

## Top 10 Shows BY IMDB Ratings



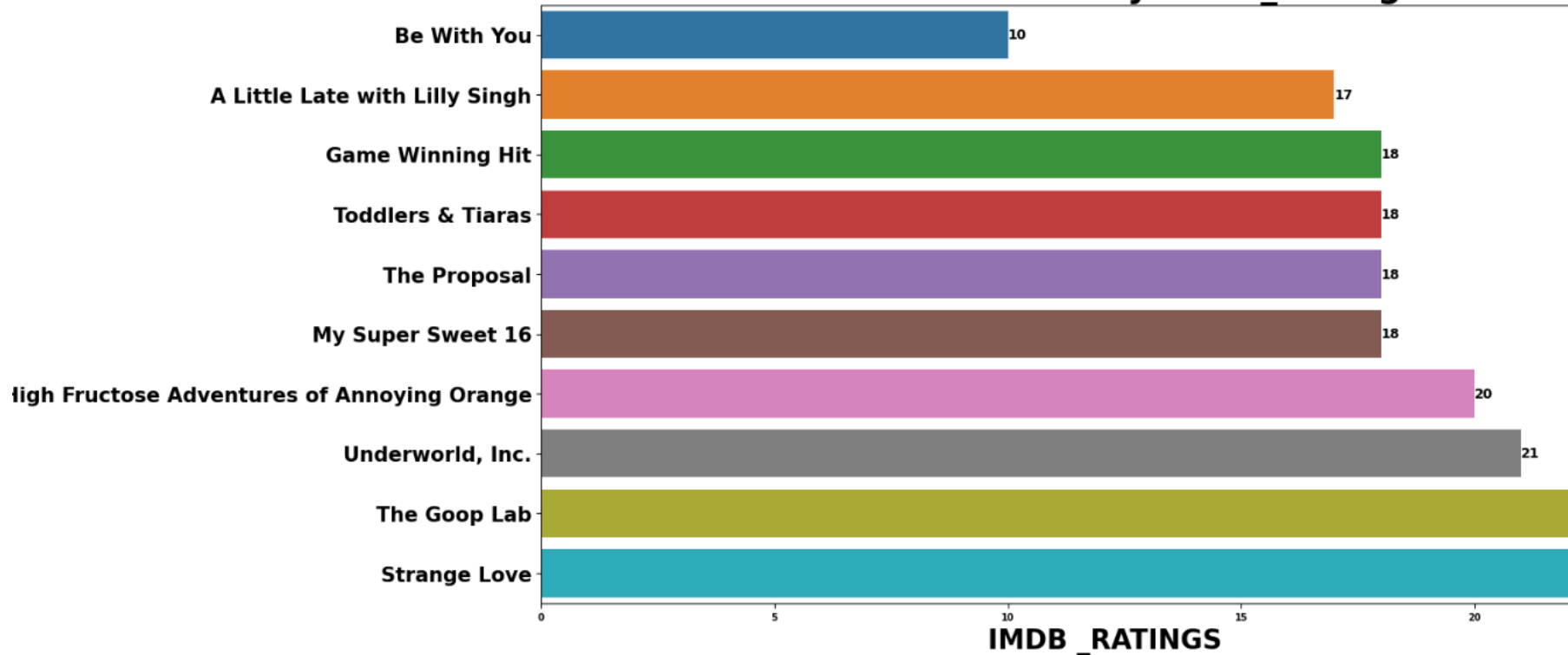
### ➤ Conclusions:

1-**Destiny** is the top-rated TV show with a rating of **96 out of 100**.

2- **Hungry Henry** , **Malgudi Days** , and **Breaking Bad** all have high ratings of **95 out of 100**, making them the next highest-rated shows.

3. The high ratings of these TV shows indicate their strong popularity among viewers. This suggests that they are particularly appealing to the **\*\*16+\*\*** demographic, which includes young adults and older teenagers.

**Worst 10 Shows by IMDB\_Ratings**



## ➤ Conclusions:

- Most Worst Shows are:

1- **Be with You"** is considered one of the worst shows based on its low IMDb rating, receiving only **10 out of 100**.

2- **A Little Late with Lilly Singh"** follows with a similarly low rating of **17 out of 100**.