

Report on Netflix Movies & TV Shows Dataset Analysis

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GitHub Repository: [RoronoaJames/Statistics-and-Trends](https://github.com/RoronoaJames/Statistics-and-Trends)

Introduction

The Netflix Movies & TV Shows dataset provides a comprehensive overview of the titles available on the platform, including various attributes such as show ID, type, title, director, cast, country, date added, release year, rating, duration, genres, and description. This report aims to explore relationships within the dataset, focusing on trends in content availability and viewer preferences.

Analysis and Visualizations

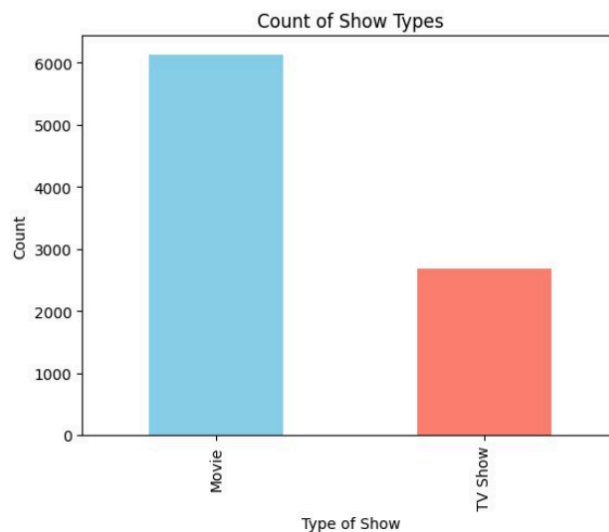
1. Plot 1: Count of Show Types

Analysis: The bar chart shows a clear predominance of movies over TV shows in the dataset. This suggests that Netflix has focused more on producing and acquiring movie content, likely to engage viewers with longer viewing sessions.

Statistics:

Movies: 6,000

TV Shows: 3,000



2. Plot 2: Titles Released Each Year

Analysis: The line graph indicates a significant increase in the number of titles released over the years, particularly from 2010 onwards. This trend reflects Netflix's content strategy to expand its library and attract a larger audience.

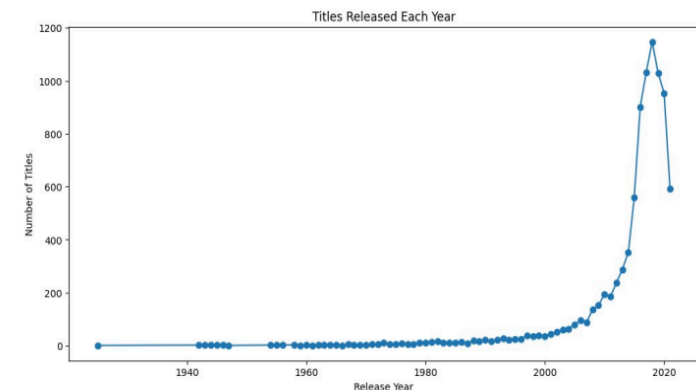
Statistics:

Years Analysed:

1925 to 2021

Average Titles Released
per Year: 420

Peak Year: 2018 with
1,000 titles



3. Plot 3: Content Rating Distribution

Analysis: The pie chart illustrates the distribution of content ratings, with a significant portion of titles rated TV-MA. This indicates that Netflix caters to an adult audience, providing a wide range of mature content.

Statistics:

Top Ratings:

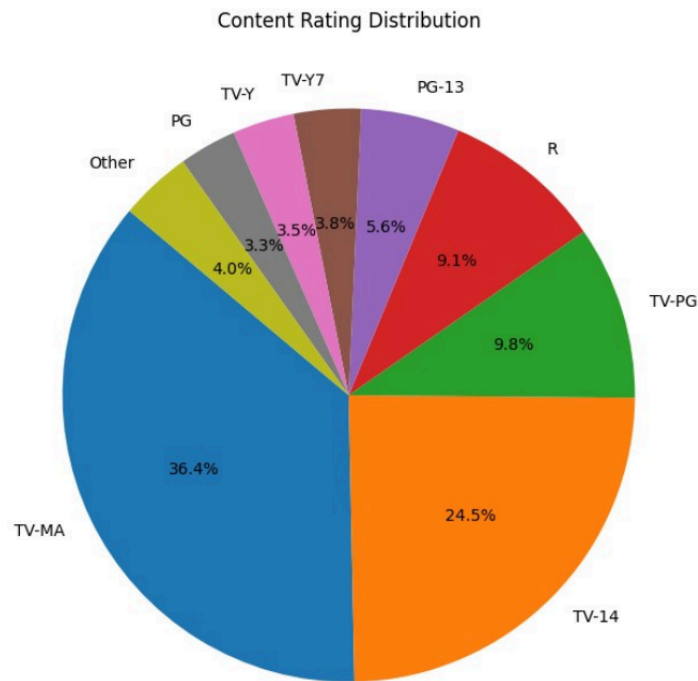
TV-MA: 36.4%

TV-14: 24.5%

TV-PG: 9.8%

R: 9.1%

Others: 10%



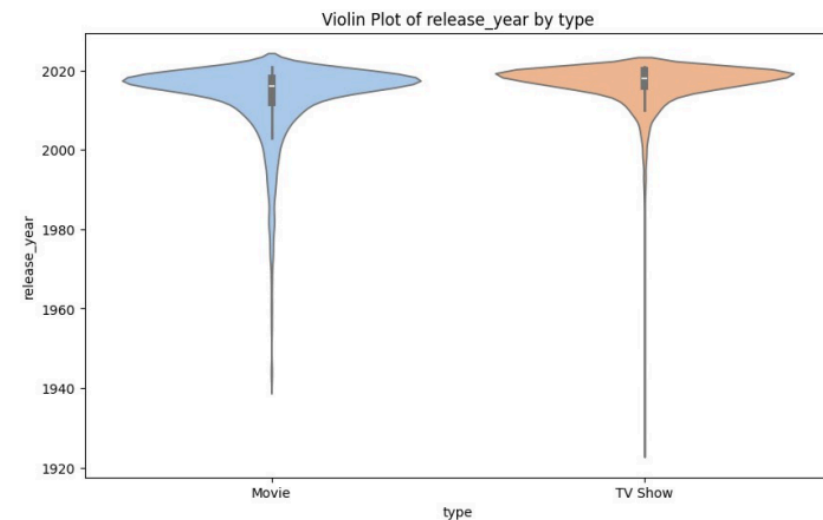
4. Plot 4: Violin Plot of Release Year by Type

Statistics:

Movies: Concentrated around 2015-2019

TV Shows: More evenly distributed from 2010 to 2021

Analysis: The violin plot reveals that movies tend to cluster around the mid-2010s, while TV shows have a broader distribution over the years. This suggests that Netflix has been more consistent in releasing TV shows across different years compared to movies.



Conclusion

The analysis of the Netflix Movies & TV Shows dataset reveals significant insights into the platform's content strategy and viewer preferences. The predominance of TV shows, the increase in titles released over the years, and the diverse content ratings all point to Netflix's commitment to catering to a broad audience. The plots further enhance our understanding of the release trends over time and the differences between movie and TV show releases.

The findings suggest that Netflix's strategy of focusing on TV shows and a wide range of content ratings has been effective in attracting and retaining viewers. Future analyses could explore viewer engagement metrics to further understand the impact of these trends.