# **Netflix Data Analysis: Exploring Streaming and Upload Trends**

## **Summary Statistics Analysis:**

We could draw following insights from the summary statistics for Netflix data:

- 1) Type Distribution: There are 8805 entries, with 6130 being movies (69.64%) and the remaining 2675 being TV shows (30.36%). This indicates that Netflix has a larger library of movies compared to TV shows.
- 2) Top Director, Cast, and Country: The director, cast, and country column had missing data in several instances. This suggests that there is a significant portion of content where these details are either not provided or not available.
- 3) Date Added Distribution: The most common date for adding content to Netflix is January 1, 2020, with 111 entries. This indicates towards a systematic approach to adding content.
- 4) Rating Distribution: The most common rating is TV-MA, followed by other ratings such as TV-14 and TV-PG. This indicates that Netflix's content caters to a variety of age groups and preferences.
- 5) Duration Distribution: The mean duration is 245.33 minutes (approximately 4 hours), with a standard deviation of 359.90 minutes. The data ranges from 8 minutes to 5525 minutes (approximately 92 hours). This suggests a wide range of content durations, from short films to longer series or documentaries.
- 6) Listed In Distribution: The most common genre listed is "Dramas, International Movies", indicating that Netflix offers a diverse range of content genres, including both drama and international films.

These insights provide a broad overview of the Netflix content catalog, highlighting the diversity and distribution of its offerings in terms of type, date, genre, and other attributes. I did further analysis and visualization using EDA to reveal more detailed patterns and trends.

#### **Exploratory Data Analysis**

#### Insight 1: 69.64% of Netflix's library is movies and the remaining are TV shows (30.36%).

The content type analysis shows that Netflix has more Movie content as compared to TV shows. Netflix started as a DVD renting company and has historically focused more on acquiring and producing movies compared to TV shows for several reasons:

- 1) Audience Preference: Historically, movies have been more universally appealing across different demographics and regions compared to TV shows, which often have more niche audiences.
- 2) Licensing: Acquiring licensing rights for movies can sometimes be simpler and more cost-effective than securing the rights for TV shows, especially for newer or more popular content.
- 3) Original Content Strategy: Netflix initially gained popularity by offering a vast library of movies, and it later expanded into producing its own original content. While Netflix does produce a significant number of TV shows, it may prioritize movies in its original content strategy due to their broader appeal.
- 4) Competitive Landscape: Netflix faces competition from other streaming platforms, and the availability of movies can be a key differentiator. Having a diverse selection of movies helps Netflix attract and retain subscribers.

However, it's worth noting that Netflix's content strategy evolves over time based on viewer preferences, market trends, and competition. As the streaming landscape continues to evolve, Netflix may adjust its balance of movies and TV shows accordingly.

## Insight 2: Netflix content upload has increased exponentially since 2016 with a drop in 2021.

There could be several factors contributing to the increase in Netflix content uploads since 2016 followed by a drop in 2021:

Competition: The streaming landscape has become increasingly competitive, with new players entering the
market and existing ones ramping up their content production. Netflix may have initially increased its content
uploads to stay ahead of the competition, but the drop in 2021 could be due to increased competition from other
platforms.

2) Pandemic Impact: The COVID-19 pandemic significantly disrupted content production across the entertainment industry. While streaming platforms initially saw a surge in viewership during lockdowns, production delays and cancellations may have affected Netflix's ability to release new content in 2021.

It's essential to consider a combination of these and potentially other factors when analyzing trends in Netflix's content uploads. Without access to Netflix's internal data and decision-making processes, it's challenging to pinpoint the exact reasons for the observed patterns.

## Insight 3: US, India and UK are three top most content producing countries.

The prominence of the United States, India, and the United Kingdom as the top content-producing countries for Netflix can be attributed to several factors:

- 1) Large Entertainment Industries: The US, India, and the UK have well-established and thriving entertainment industries with rich histories of film and television production. These countries have abundant talent pools of filmmakers, directors, writers, and actors, making them natural hubs for content creation.
- 2) Cultural Diversity: Each of these countries boasts diverse cultures and languages, allowing for a wide range of storytelling styles and genres. This diversity enables Netflix to cater to global audiences by offering content that reflects various cultural perspectives and experiences.
- 3) Language Advantage: English is widely spoken in the US and the UK, giving content produced in these countries' broader accessibility to international audiences. India, with its vast population and diverse linguistic landscape, produces content in multiple languages, including English, Hindi, Tamil, Telugu, and others, further expanding Netflix's reach.
- 4) Market Size and Potential: The US, India, and the UK represent significant markets for Netflix in terms of both existing subscribers and potential growth. Producing content tailored to these markets allows Netflix to appeal to local audiences while also attracting subscribers from around the world who are interested in content from these regions.
- 5) Partnerships and Collaborations: Netflix actively collaborates with local production companies, studios, and talent in these countries to develop and produce original content. These partnerships help Netflix access local expertise, resources, and creative talent while also fostering relationships with established players in the entertainment industry.
- 6) Regulatory Environment: The regulatory landscape in these countries may also play a role in Netflix's content production decisions. Favorable regulations, tax incentives, and government support for the entertainment industry can encourage investment in content creation.

Overall, the combination of a robust entertainment industry, cultural diversity, language advantage, market size, strategic partnerships, and regulatory factors makes the US, India, and the UK prime locations for Netflix's content production efforts.

**Insight 4:** Netflix offers a diverse array of genres, encompassing dramas, action movies, comedies, documentaries, and children and family movies. This expansive selection indicates Netflix's commitment to catering to a broad audience spectrum. This inclusivity is further underscored by the range of content ratings, spanning from TV-MA to PG and TV-G. With such varied offerings, Netflix effectively targets audiences of all age groups, ensuring that there is something for everyone in its content library.