

# NETFLIX DATA: CLEANING, ANALYSIS AND VISUALIZATION

By Mohamed Ali

# INTRODUCTION

---

**Objective :** Analyze Netflix data to uncover trends in movies and TV shows.

**Methodology :** Clean, explore, and visualize data using Python and Pandas.

**Key Insights :** Identify popular genres, release trends, and content patterns.

# PROBLEM EXPLANATION

---

**Data Quality :** Netflix data contains missing values and inconsistencies.

**Complexity :** The dataset includes diverse features like genres, ratings, and release years, which need to be analyzed effectively.

**Trend Identification :** Need to identify important trends and insights, such as genre popularity and release patterns over time.

# SOLUTION

---

Data Cleaning : Handled missing values, duplicates, and data formatting using Pandas.

Exploratory Data Analysis (EDA) : Conducted detailed analysis to explore key features and patterns.

Visualization : Created charts and graphs (e.g., bar charts, line graphs) to communicate findings effectively.

# TECHNIQUES USED

---

**Data Preprocessing :** Cleaned the dataset by handling missing values, duplicates, and ensuring correct formats.

**Exploratory Analysis :** Used Python libraries (Pandas, NumPy) for statistical analysis and identifying trends.

**Visualization Techniques :** Leveraged Matplotlib and Seaborn to create meaningful visualizations (e.g., distribution of genres, trends over time).

## TECHNIQUES USED

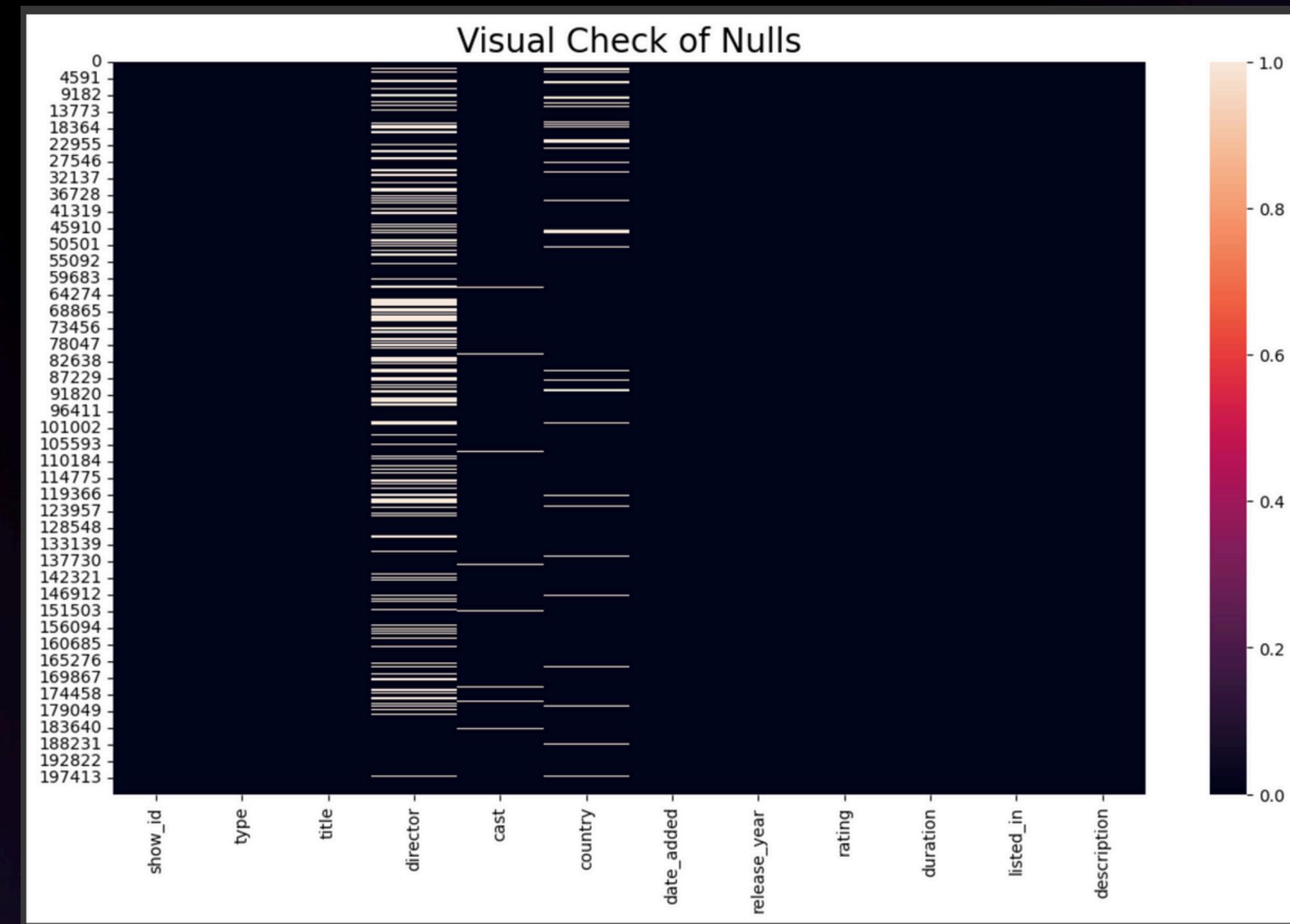
---

Statistical Analysis : Applied descriptive statistics (mean, median, mode) to understand the data distribution.

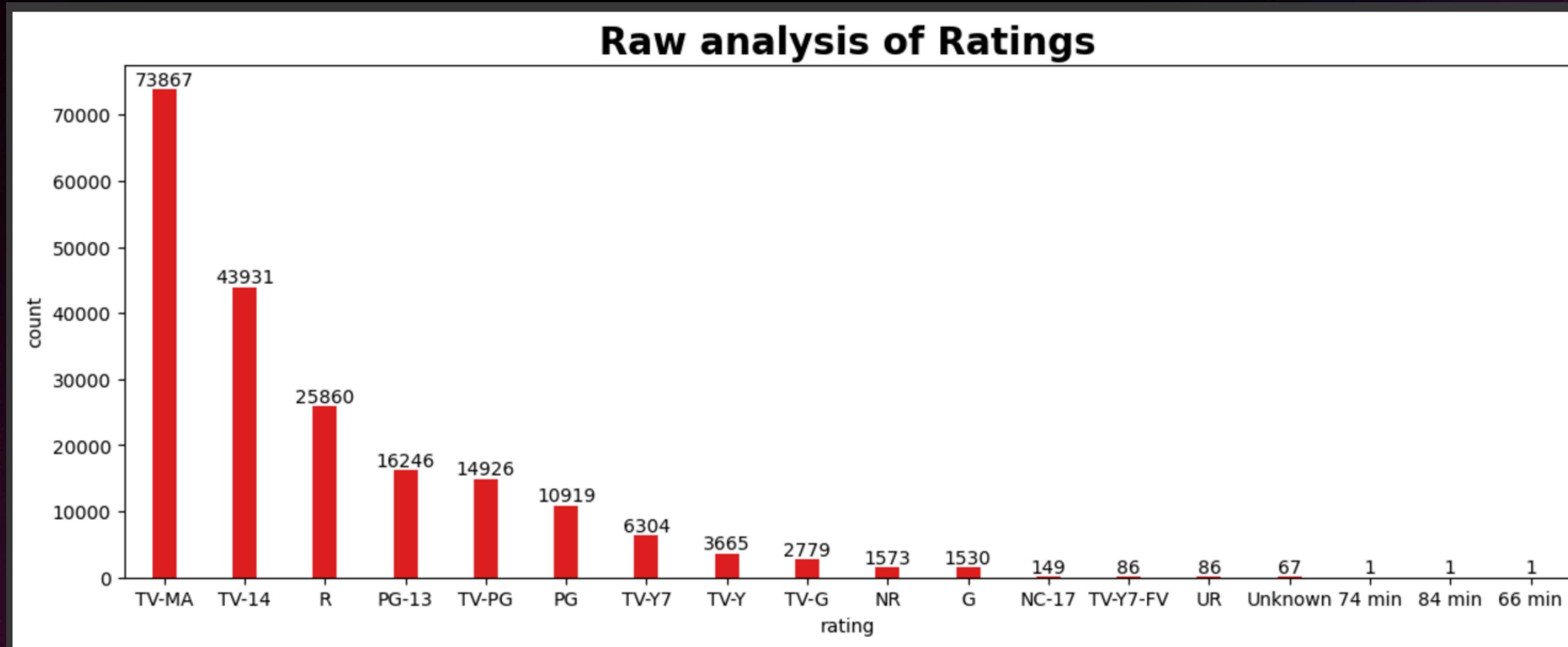
Trend Analysis : Used line charts and bar graphs to track changes in release years and genre popularity over time.

Tools and Libraries : Python (Pandas, Matplotlib, Seaborn) was used to clean, analyze, and visualize the data efficiently.

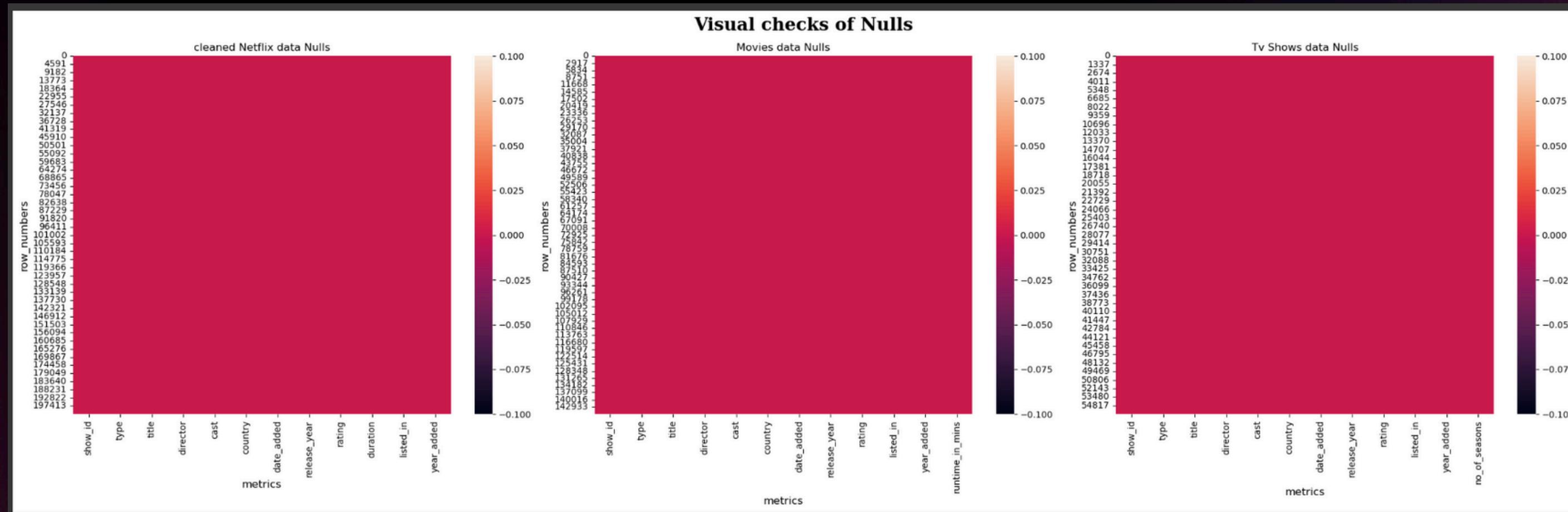
# TREATING NULLS



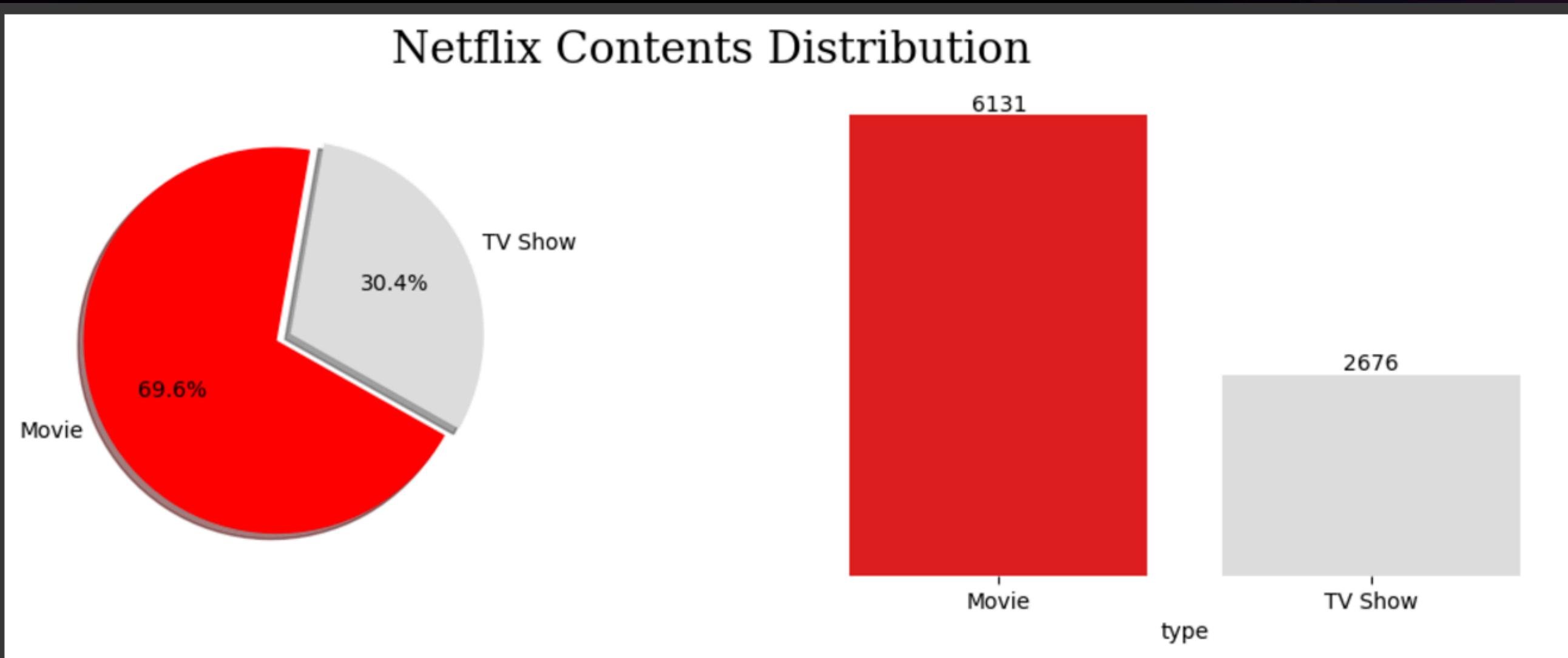
# RAW ANALYSIS



# VISUAL CHECKS OF NULL

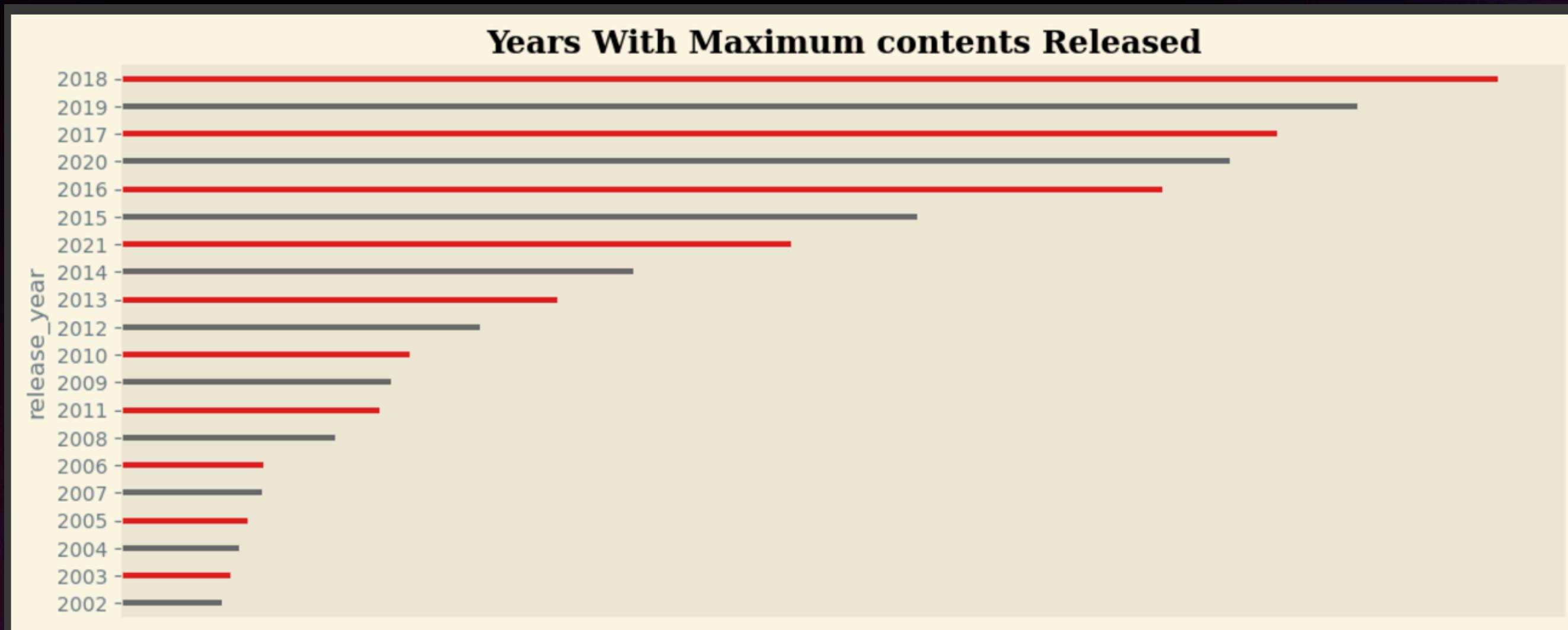


# NETFLIX CONTENT DISTRIBUTION



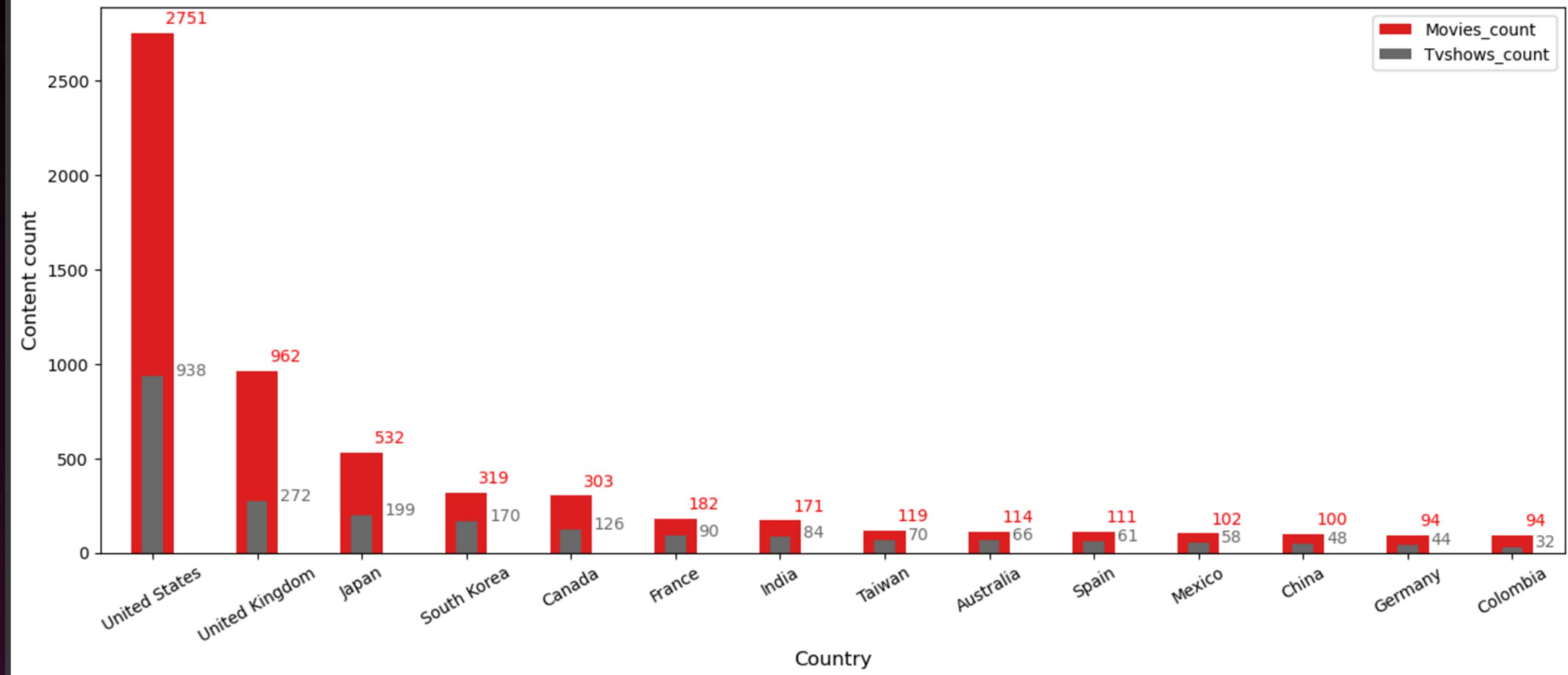
# INSIGHT

---

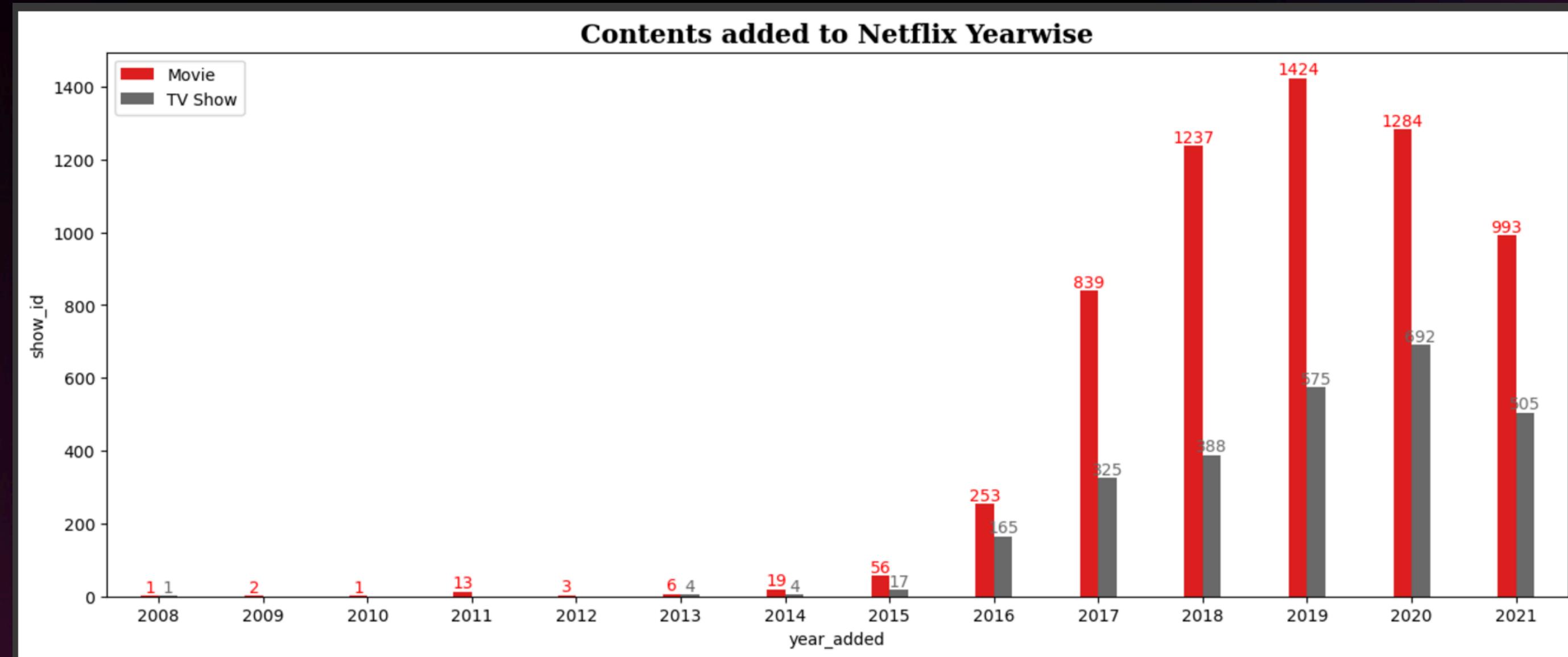


# INSIGHT

## Countries consuming Movies & TV Shows



# INSIGHT



# INSIGHT

