# Netflix Data Cleaning, Analysis and Visualization

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#### Introduction & Problem Statement

#### Introduction

• The project aims to analyze and visualize Netflix data to uncover trends in content distribution, genres, and popularity.

#### **Problem Statement**

- How is Netflix's content distributed by year, genre, and country?
- What are the most common content types and trends over time?



# **Dataset Description**

#### **Overview**

- The dataset contains information on Netflix movies and TV shows, including:
- Title, Genre, Release Year, Country, Duration and Ratings.

#### **Data Insights**

- Total Records: (8790 rows and 10 columns)
- Missing Values: (No missing data)



# **Dataset Description**



This is the output of df.head() first five rows of dataset.

List of columns in dataset.



# Data Preprocessing

#### **Steps:**

- Handling Missing Values: Replaced or dropped missing values in relevant columns.
- Date Formatting: Converted release dates into a standardized format for analysis using pandas.to\_datetime()
- Feature Engineering: Extracted new features (e.g., Year and Month of Release).

```
### Extracting year, month, day from date_added
df['date_added_year'] = df['date_added'].dt.year
df['date_added_month'] = df['date_added'].dt.month
df['date_added_month_name'] = df['date_added'].dt.month_name()
df['date_added_day'] = df['date_added'].dt.day
$\square$ 0.0s
```



# Exploratory Data Analysis (EDA) & Insights

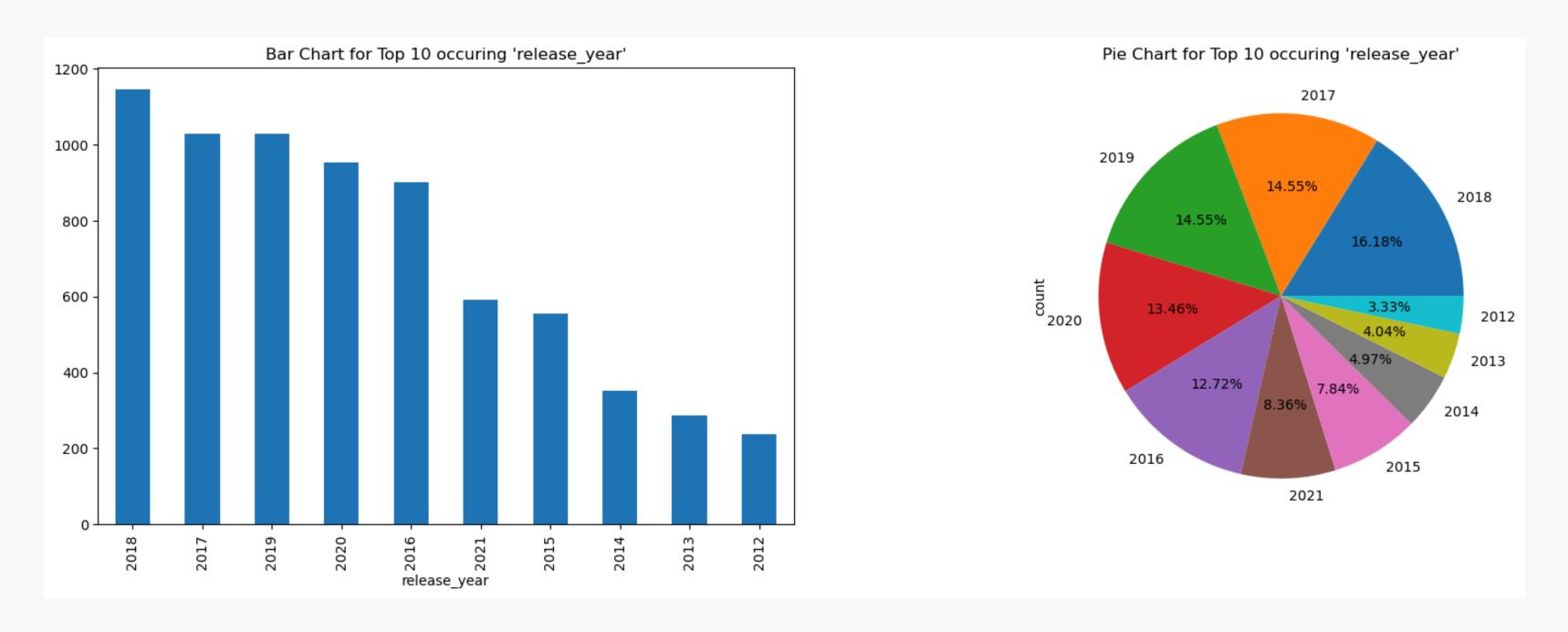
#### **Key Questions Explored:**

- What is the distribution of movies vs. TV shows?
- What are the most popular genres on Netflix?
- Which countries contribute the most content?
- How has content production changed over the years?

```
df['type'].value_counts()
e... 0.0s

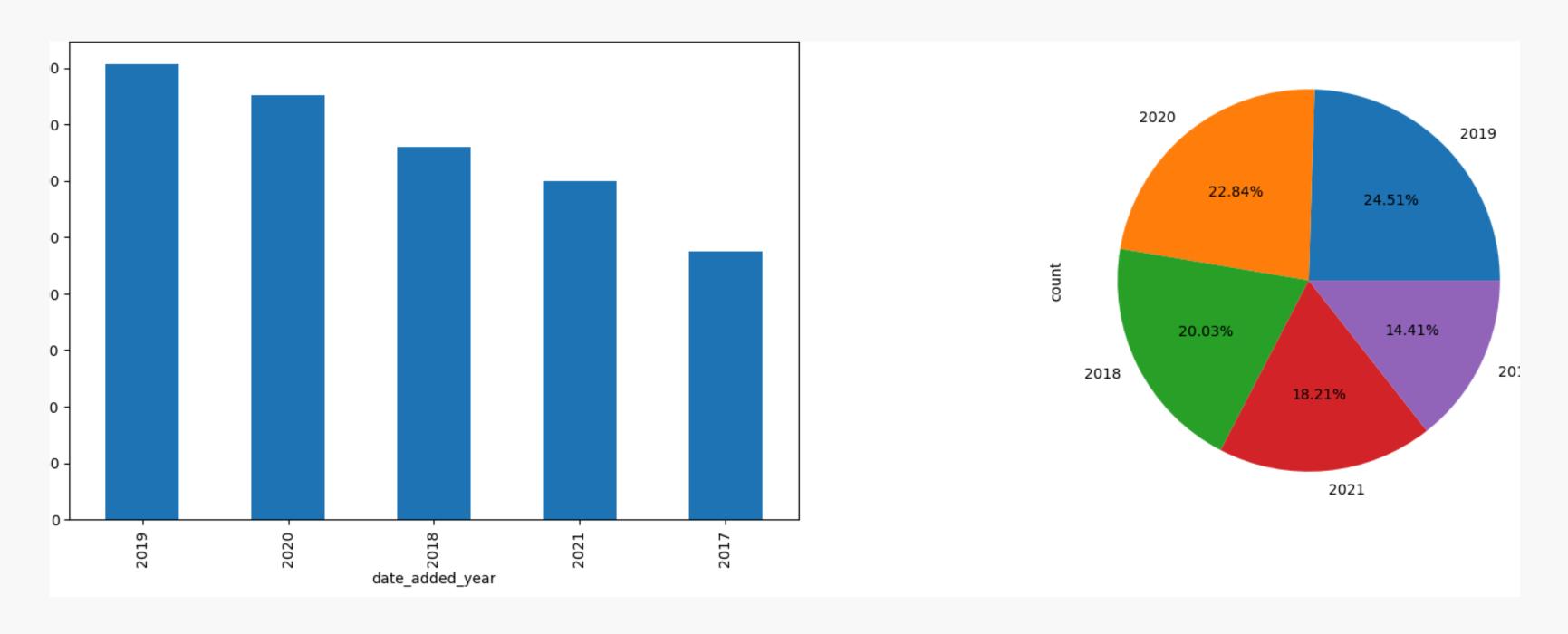
type
Movie 6126
TV Show 2664
Name: count, dtype: int64
```





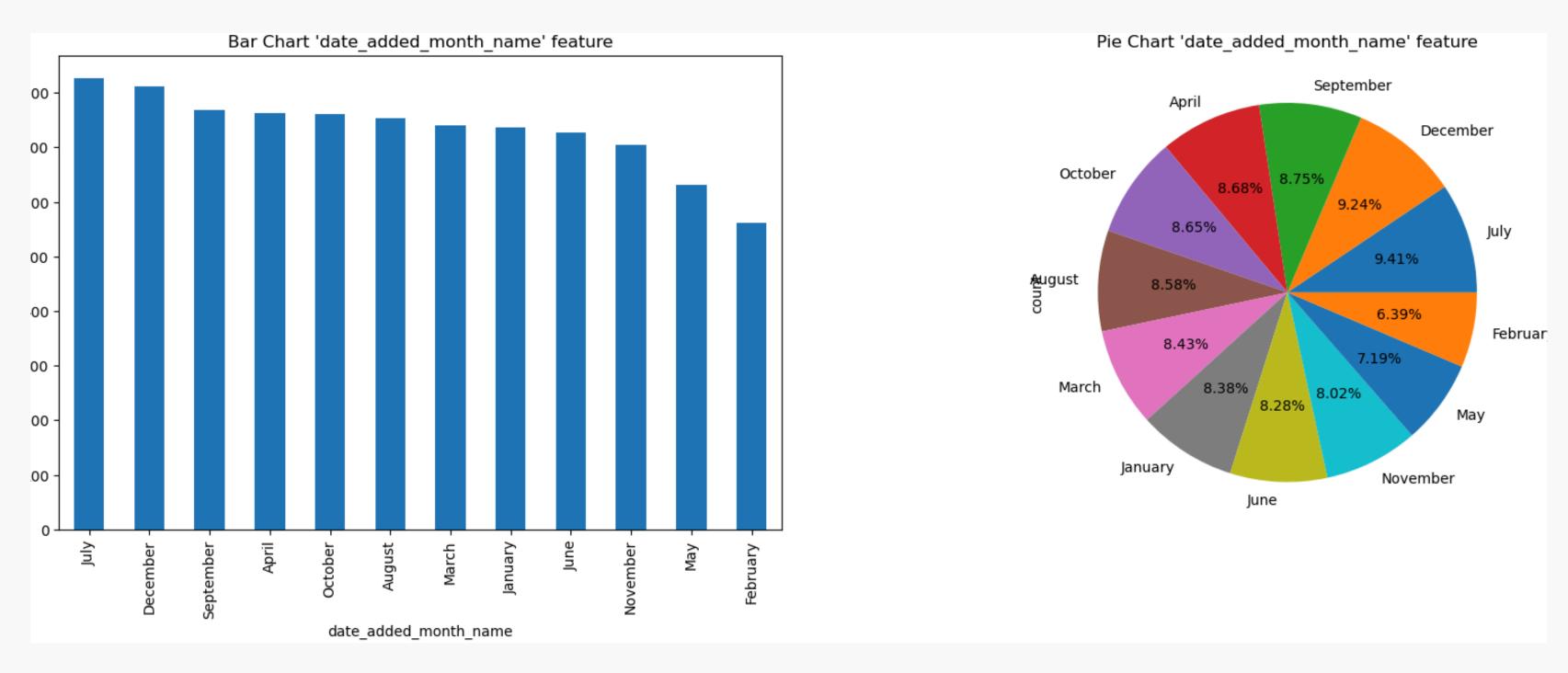
Bar chart and Pie chart for Top 10 years in 'release\_year'





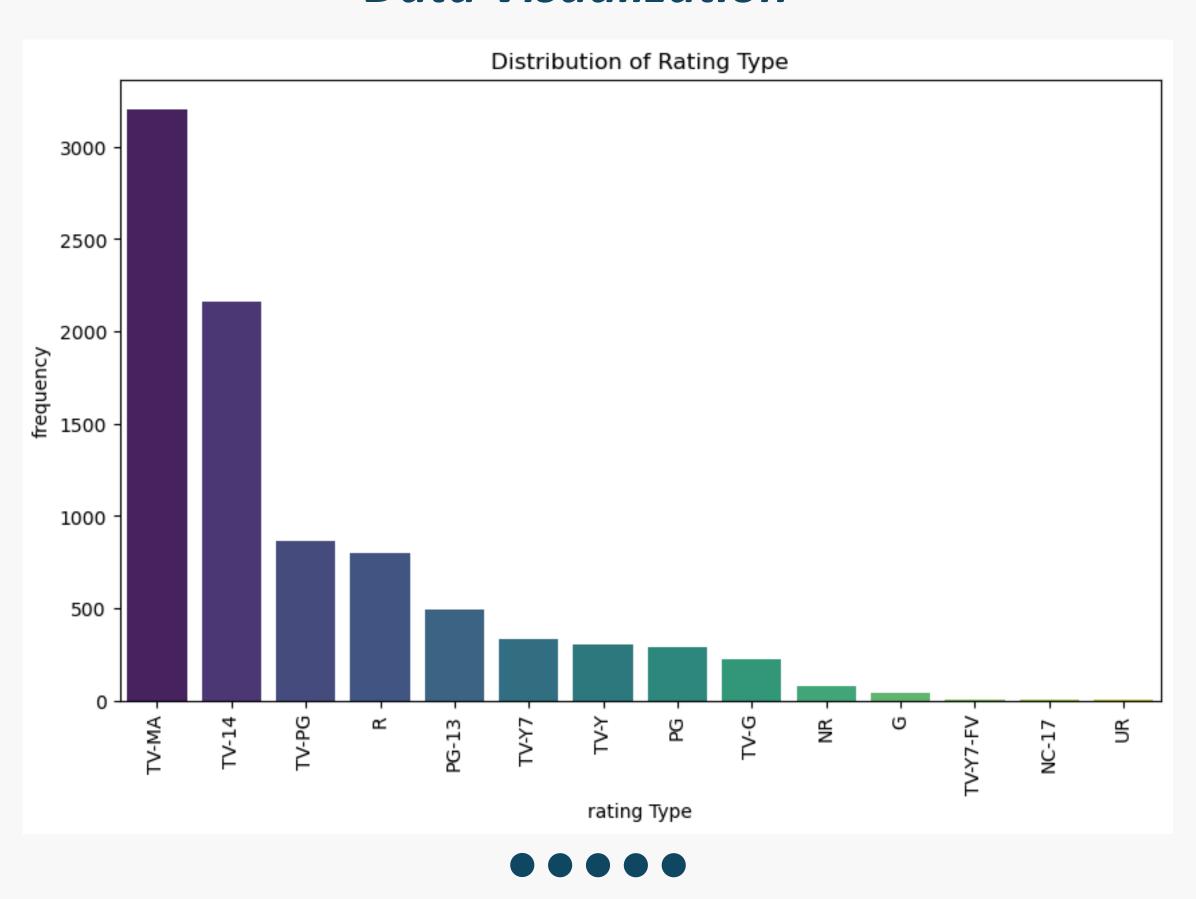
Distribution of year in date\_added feature





Distribution of month in date\_added feature





# Conclusion

#### **Conclusion:**

- This analysis provided insights into Netflix's content trends, genre distribution, and country-wise contributions.
- Visualizations helped in understanding data patterns and trends over time.



# Thank You!

