Netflix Data Analysis Using Python

Prepared by: Yeloori Krishna Deepika

This report presents a detailed data analysis of Netflix titles using Python, focusing on understanding content trends, ratings, and distribution across years and countries.

Objective

The main objective of this project is to analyze the Netflix dataset to gain insights into the types of content available, trends over time, and the most common genres, ratings, and production countries.

Dataset Description

The dataset was obtained from Kaggle and contains information about TV shows and movies available on Netflix. It includes details such as title, director, cast, country, release year, rating, and duration.

Libraries and Tools Used

• pandas – for data manipulation and cleaning
• numpy – for numerical operations
• matplotlib & seaborn – for data visualization
• Jupyter Notebook / VS Code – for analysis environment

Steps of Analysis

1. Data Loading and Inspection
2. Handling Missing Values
3. Data Cleaning and Transformation
4. Exploratory Data Analysis (EDA)
5. Visualization of Key Trends
6. Insights and Interpretation

Visualizations and Insights

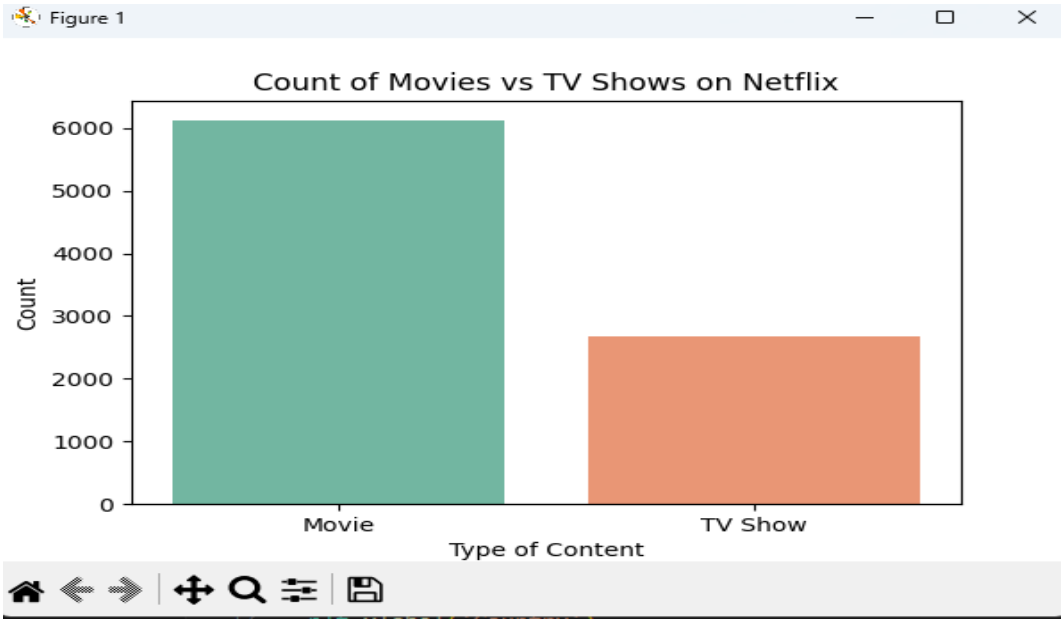

Figure 1: Distribution of Movies and TV Shows on Netflix.

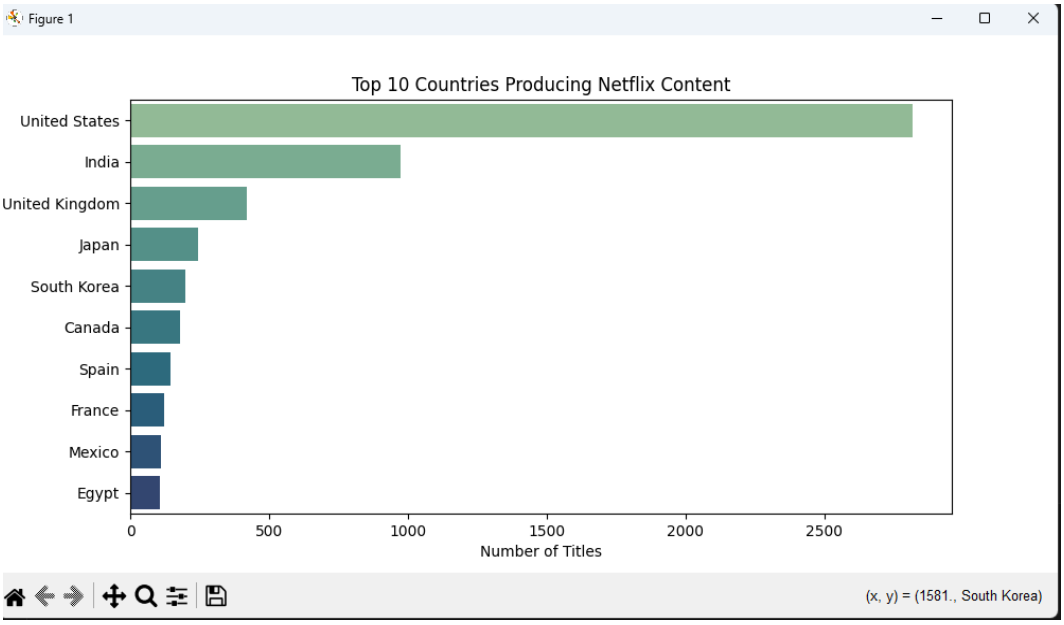

Figure 2: Trend of content added to Netflix over the years.

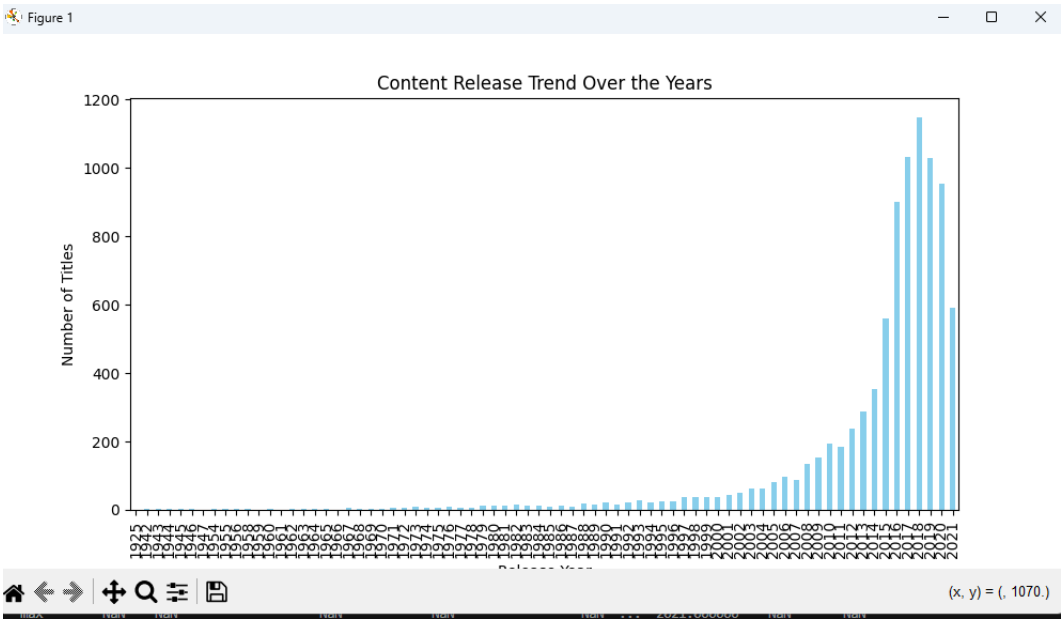

Figure 3: Top 10 countries producing the most Netflix content.

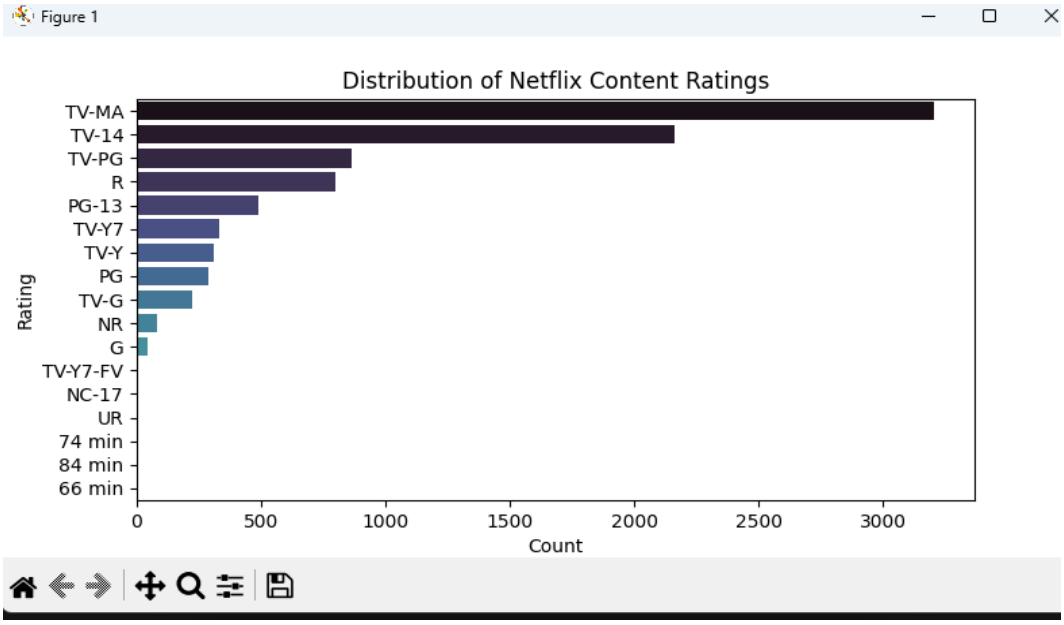

Figure 4: Most common Netflix content ratings (e.g., TV-MA, PG-13, etc.).

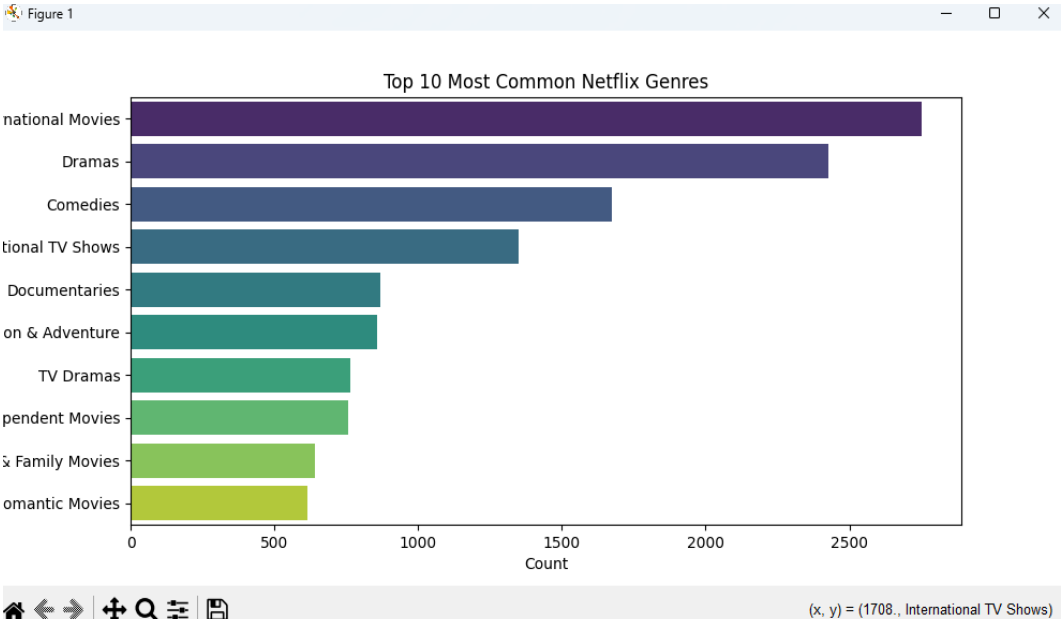

Figure 5: Top 10 genres or categories on Netflix.

Key Insights

• Netflix has a higher number of movies compared to TV shows.
• The amount of content added has grown significantly after 2015.
• The United States and India are among the top producers of Netflix content.
• TV-MA is the most common rating, indicating mature content.
• Drama, Comedy, and International Movies dominate Netflix genres.

Conclusion

This project provided an analytical understanding of Netflix's content strategy and viewer preferences using Python. The insights can be useful for understanding content trends and data-driven decision-making in entertainment analytics.

Resume Summary

Final year Computer Science graduate skilled in front-end development and data analysis. Proficient in HTML, CSS, JavaScript, and Python, with experience in data visualization and analytics. Passionate about transforming raw data into actionable insights and building impactful projects using modern technologies.