

Netflix Movies Data Analysis: Key Findings

1. Data Preparation

- Loaded the movie dataset with no missing values or duplicates.
- Kept only relevant columns; converted dates and genres to appropriate types.
- Converted multiple genres per movie into separate rows for accurate counting.

2. Most Frequent Genre

- Drama is the most common genre on Netflix, followed by Comedy and Thriller.
- *[See Genre Distribution plot].*

3. Distribution of Vote Averages

- Movies are categorized into 'below_avg', 'not_popular', 'Average', and 'Popular' based on vote averages.
- The number of 'Average' and 'Popular' movies is roughly equal.

4. Movies with Extreme Popularity

- Most popular movie(s): "Spider-Man: No Way Home" (with genres: Action, Adventure, Science Fiction; popularity score: 5083.95).
- Least popular movie(s): Several titles with the lowest popularity score (0.6), across genres like Music, Drama, History, War, Science Fiction.

5. Year with Most Movies Released

- The most filmed/released movies occurred in recent years (latest year on histogram has the highest bar).
- Suggests growth in Netflix's movie catalog.

Visualizations

- Genre distribution and vote category graphs are present and readable.
- Plots use sorting and grids for better readability.