

# Netflix Movies Analysis – Summary Report

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## Data Preprocessing

- **Columns Dropped:**
    - Overview, Original\_Language, Poster\_Url were removed to clean the dataset.
  - **Date Conversion:**
    - The Release\_Date column was converted from object to datetime format and then simplified to **year only**.
  - **Genre Column:**
    - Genre entries were **split** into multiple rows to allow better analysis.
  - **Vote\_Average** column was categorized based on quartiles:
    - **Popular:** > 75th percentile
    - **Average:** 50th–75th percentile
    - **Below Average:** 25th–50th percentile
    - **Not Popular:** < 25th percentile
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## Key Findings


### Most Frequent Genre

- The most common genre is **Drama**, appearing in **over 14%** of the total genre entries.

### Popularity of Movies (by Vote\_Average)

- Movies were categorized into:
  - **Popular**
  - **Average**
  - **Below Average**
  - **Not Popular**
- Among these, "**Average**" movies make up the largest group.

### Most Popular Movie

-  **"Spider-Man: No Way Home"** is the most popular movie.
  - Genres: Action, Adventure, Science Fiction

### Least Popular Movies

Two movies were identified as least popular:

1. **The United States vs. Billie Holiday**
  - Genres: Music, Drama, History
2. **Threads**
  - Genres: War, Drama, Science Fiction

### Movie Releases Over Time

- The year **2021** saw the **highest number of movie releases** in the dataset.
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### Conclusion

- **Drama** dominates as the most frequent genre in Netflix movies.
- The majority of movies fall under the **"Average" popularity** label based on vote averages.
- **Action + Sci-Fi** combinations like Spider-Man drive high popularity.
- Movies released in **2021** dominate the dataset, reflecting a surge in streaming releases.