



INTRAIN
TECH

AMAZON PRIME MOVIES AND SHOWS ANALYSIS





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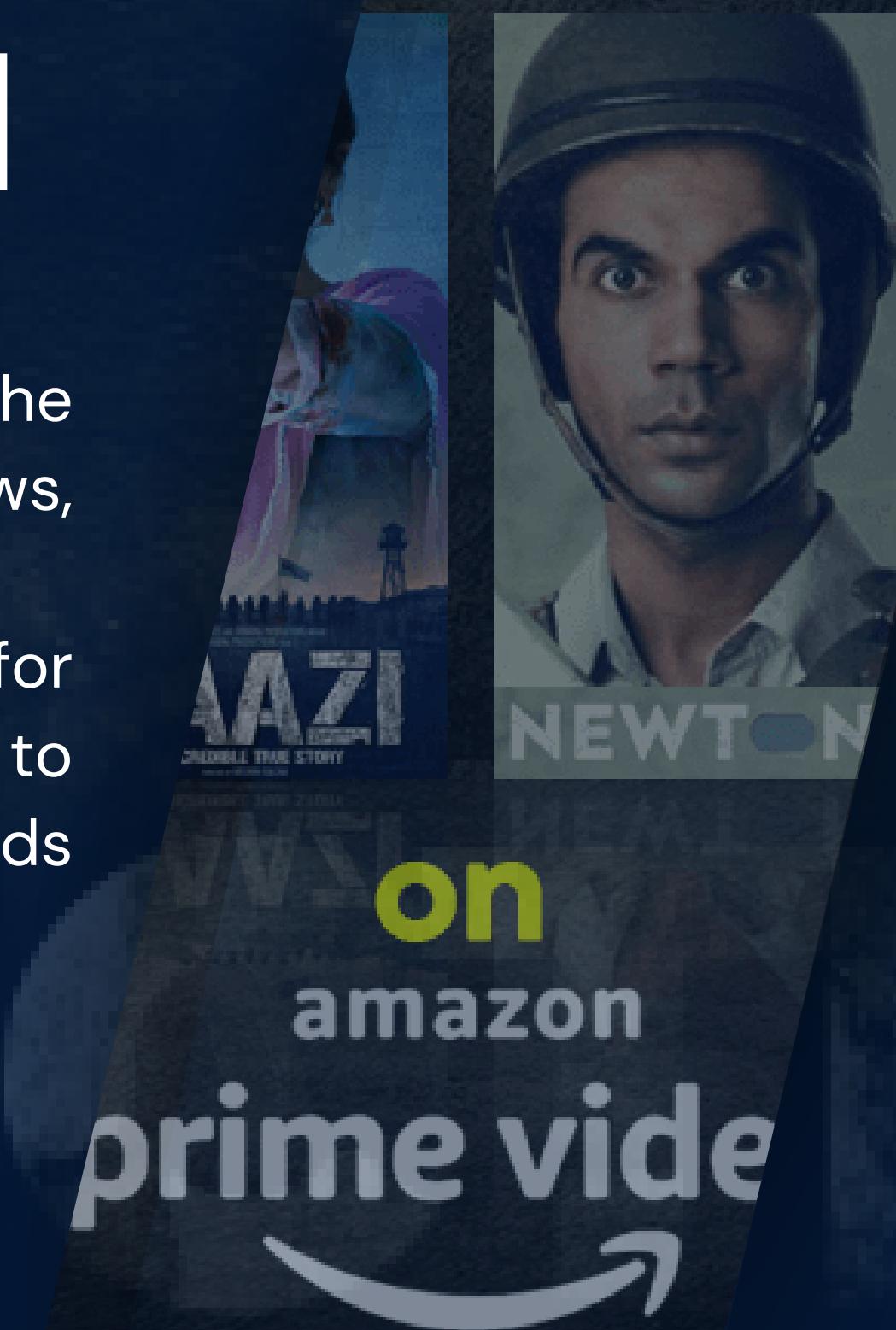
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INTRODUCTION

- Amazon Prime Video has become a powerhouse in the entertainment industry, offering a vast library of TV shows, movies, and original content.
- Analyzing viewer data can provide valuable insights for content creators, producers, and platform managers to enhance their offerings and cater to the evolving demands of the audience.



WHY THIS?

- The data we have collected is historical data, as data scientists we can bring out insights from the dataset.
- The insights generated from this analysis can provide valuable strategic direction for Amazon Prime, such as optimizing content acquisition, enhancing user experience, and improving customer retention.
- Since this project includes domains of computer science and statistics, we have decided to explore more and derive useful insights.
- Also, the format of the dataset is compatible with our analysis tools and methods, allowing for seamless integration into our analysis process.



AMAZON ORIGINAL
**THE
OBJECTIVES AND GOALS**

- Exploratory Data Analysis (EDA): Objective: Perform exploratory data analysis to understand the distribution and characteristics of the available movies and shows
- Analyze the distribution of genres, release years, ratings
- Identify Trends
- Identify trends and patterns in user ratings and reviews.
- Visualize key insights using plots and charts.

DATA COLLECTION

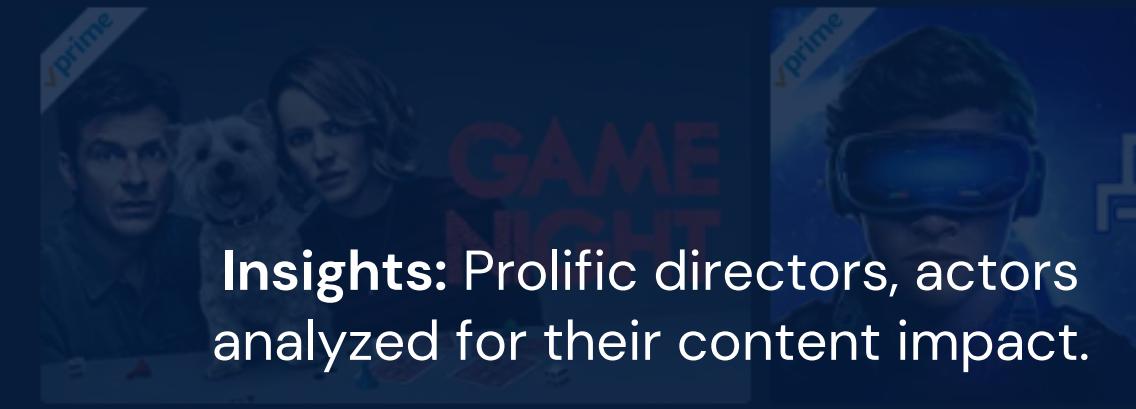
Dataset link: <https://www.kaggle.com/datasets/shivamb/amazon-prime-movies-and-tv-shows>

The dataset has following attributes:

- show_id: Unique identifier for each entry in the dataset.
- type: Indicates the type of content, such as movie or TV show.
- title: The title of the movie or TV show.
- director: The director(s) of the movie or TV show.
- cast: The cast or actors appearing in the movie or TV show.
- country: The country or countries where the movie or TV show was produced.
- date_added: The date when the movie or TV show was added to the streaming platform.
- release_year: The year when the movie or TV show was originally released.
- rating: The rating assigned to the movie or TV show, such as G, PG, PG-13, etc.
- duration: The duration or length of the movie or TV show.
- listed_in: The category or genre under which the movie or TV show is listed.
- description: A brief description or summary of the movie or TV show.

CLEANING METHOD

- **Handling Missing Values:** Check for missing values in important columns (e.g., show ratings, genres) and decide on a strategy (e.g., imputation, removal)
 - **Standardizing Data Formats:** Ensure consistency in data formats (e.g. date formats, text casing) for easy analysis.
 - **Removing Duplicates:** Check for and remove duplicate entries to avoid skewing analysis results.
 - **Dealing with Outliers:** Identify and handle outliers in numerical columns appropriately to prevent them from affecting the analysis.
- **Addressing Inconsistencies:** Check for inconsistencies in categorical data (e.g., different spellings of the same genre) and standardize them.
 - **Normalization:** Normalize numerical data if necessary to ensure fair comparison between different features.
 - **Feature Engineering:** Create new features if needed to enhance analysis (e.g., combining genres into broader categories).
 - **Data Validation:** Validate data against a known source or dataset to ensure accuracy.
 - **Data Transformation:** Transform data into a format suitable for analysis (e.g., converting categorical variables into numerical ones).
- **Quality Check:** Perform a final quality check to ensure the dataset is clean and ready for analysis.



ANALYSIS

Content Trends

Trends: Content addition over time, popular genres, movie/TV show distribution.

Top Contributors

Insights: Prolific directors, actors analyzed for their content impact.

Geographic Distribution

Regional content contributions on Amazon Prime explored, highlighting country preferences.

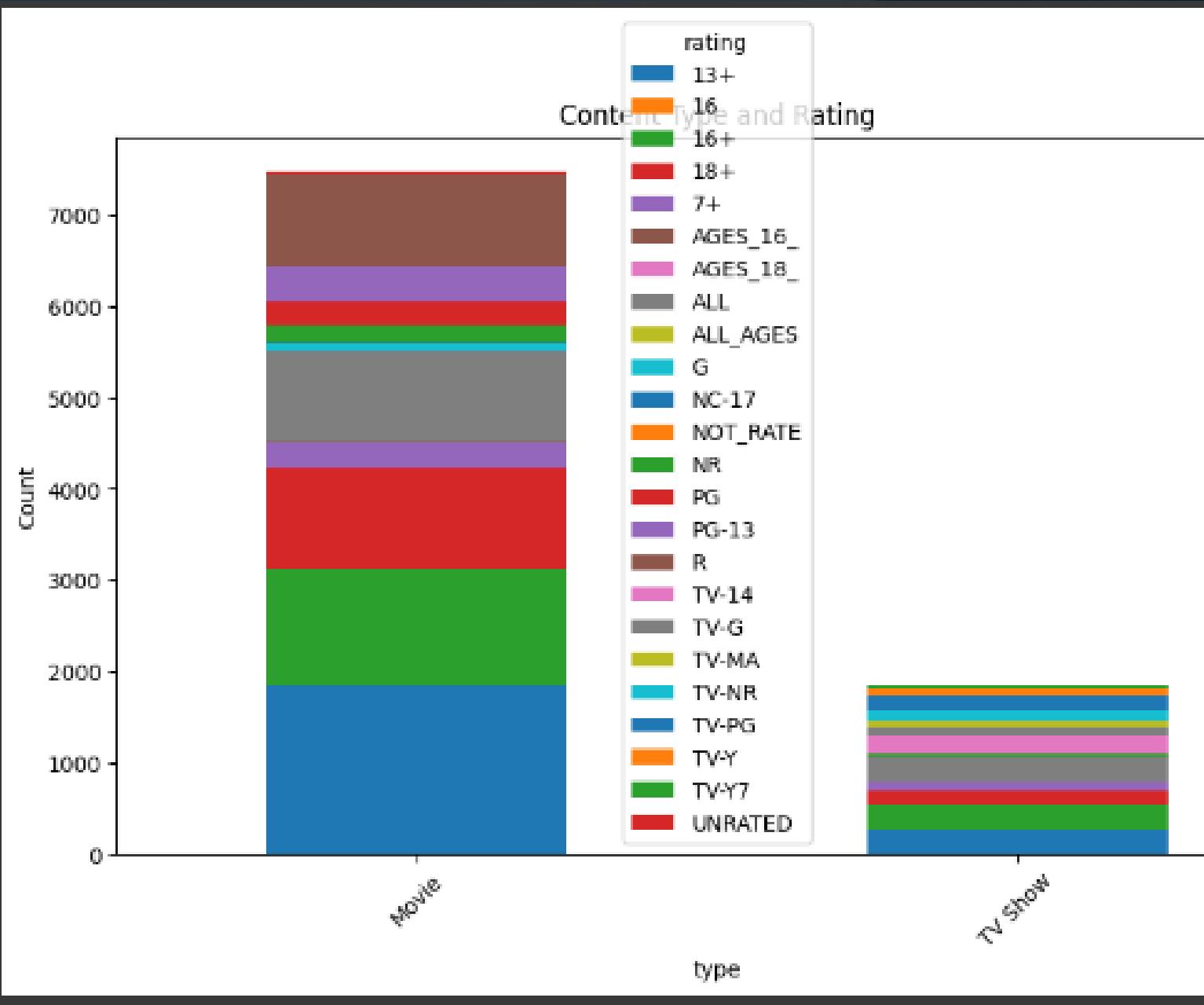
User Ratings

EDA - RESULTS INTERPRETATION

Included with Prime

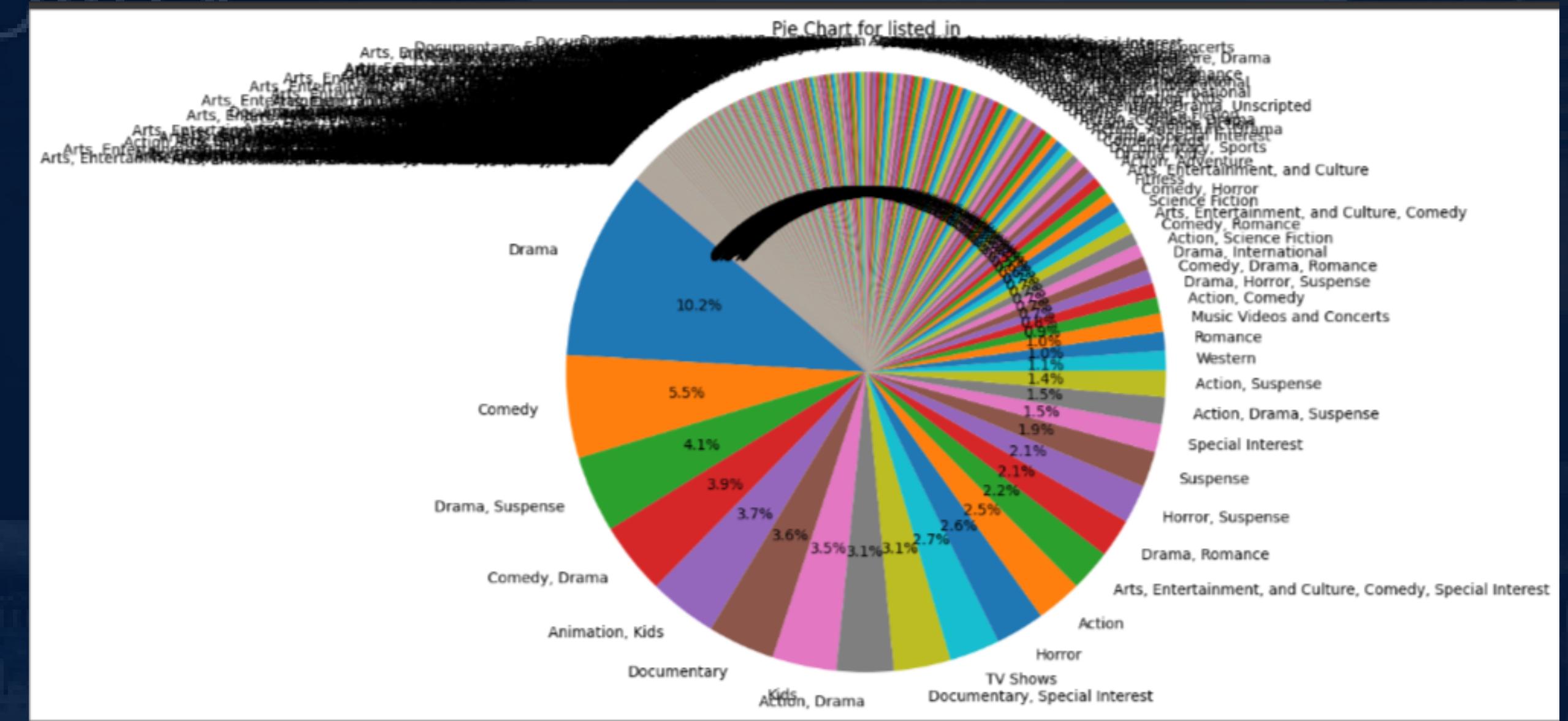
More details

- Stacked Bar Plot groups the dataset by both content type (movies or TV shows) and rating categories. It then creates a stacked bar plot where each bar represents a content type (movie or TV show), divided into segments representing different rating categories.
- This visualization allows for a clear comparison of how ratings are distributed across different types of content, aiding in understanding user preferences and satisfaction levels.



THE RINGS OF POWER

This pie -chart counts how often each category appears in the 'listed_in' column, and generates a pie chart to visually represent the proportion of each category. The chart displays labels for categories and their respective percentages, offering insight into content distribution on Amazon Prime.



RECOMMENDATIONS

- **Diversity Content:** Offer a variety of shows across different genres to cater to a wide audience.
- **Promote Top-Rated Shows:** Highlight and promote top-rated shows to attract more viewers.
- **Release New Content Strategically:** Release new shows during peak viewing periods to maximize viewership.
- **Engage with Viewers:** Encourage viewer engagement through interactive features to enhance the viewing experience.
- **Personalize Recommendations:** Use viewer data to personalize content recommendations for a more tailored viewing experience.
- **Monitor Competitor Trends:** Stay informed about trends on other streaming platforms to remain competitive.

CONCLUSION

- In conclusion, this project demonstrates the value of data analysis in understanding and optimizing content offerings on Amazon Prime.
- By exploring trends, preferences, and contributors within the dataset, actionable insights are derived to enhance user experience and strategic decision-making.
- The project highlights the role of data science in driving innovation and competitiveness in the streaming market, ultimately benefiting both the platform and its subscribers.

REFERENCES

- <https://www.kaggle.com/code/jyotmakadiya/popular-movies-and-tv-shows-data-analysis>
- <https://www.kaggle.com/code/shivamb/amazon-prime-videos-exploratory-analysis>
- <https://analyticswithamruha.hashnode.dev/analysis-of-amazon-prime-movies-and-tv-shows>
- <https://hanidzikra.medium.com/exploratory-data-analysis-using-amazon-prime-video-repository-data-226ad36816d0>
- <https://github.com/iambittu/Analysis-of-Amazon-Prime-Videos>

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THANK YOU!! HOWS
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