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Introduction

Investigating Netflix Movies and Guest Stars in The Office

Investigating the correlation between Netflix movies and guest stars in "The Office" TV show to uncover insights about their connection.

About Me

- **Name**: Biyawala Viral Deven
- **Education**: Indian Institute of Information Technology , Surat - 3rd Year
- **Learning**: Machine Learning Learner from DataCamp
- **Skills For Project**: Language: Python
  Data Analysis and Manipulation(Pandas)
  Statistical Analysis
  Data Visualization (Matplotlib)

Project Overview

- **Objective**: Analyze the trend of movie durations on Netflix.
- **Scope**: Focus on movie durations from 2011 to 2020.
- **Components**:
  - Loading Netflix's data into a DataFrame.
  - Visual inspection of the data using a Scatter plot.
  - Filtering the Data as per requirement .
  - Creating a scatter plot to visualize movie durations over time.
  - Digging deeper into short movies.
  - Marking non-feature films on the scatter plot.
- **Data Source**: Kaggle (Netflix's dataset)

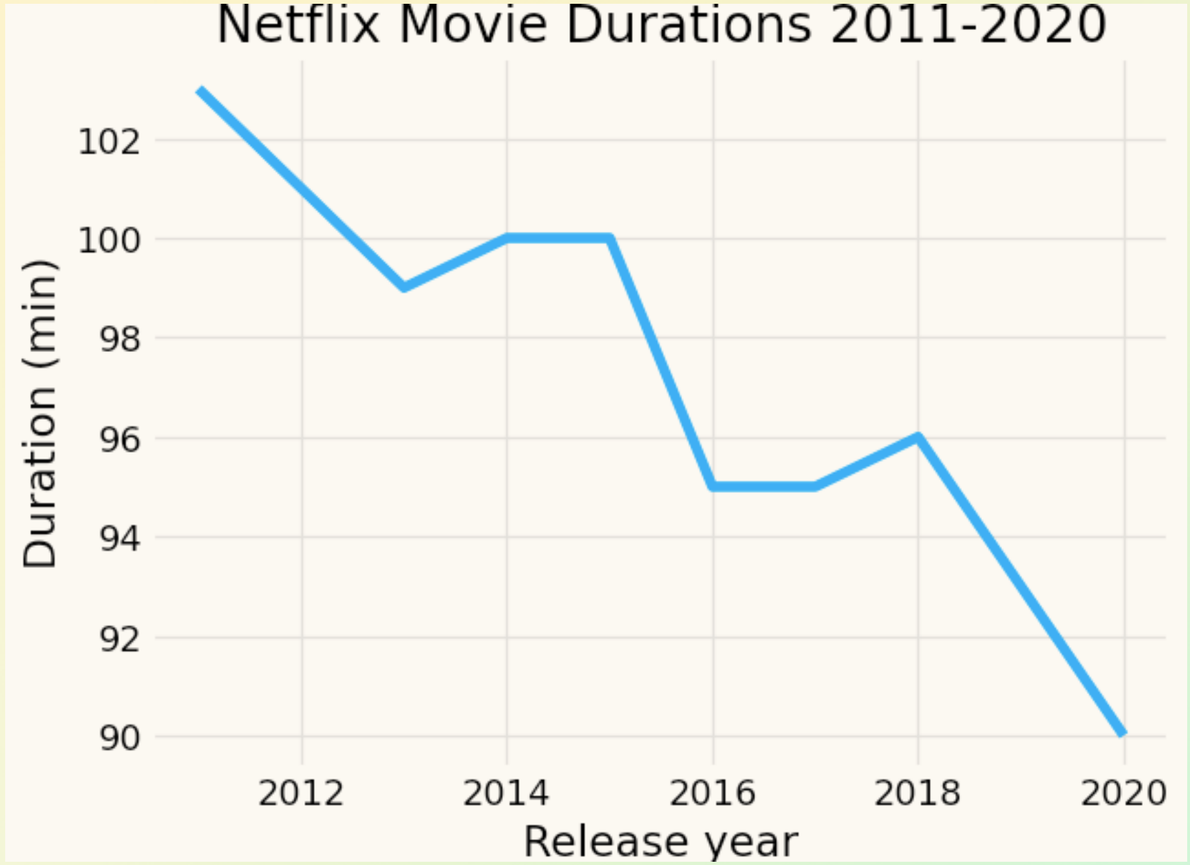
Data Analysis Approach

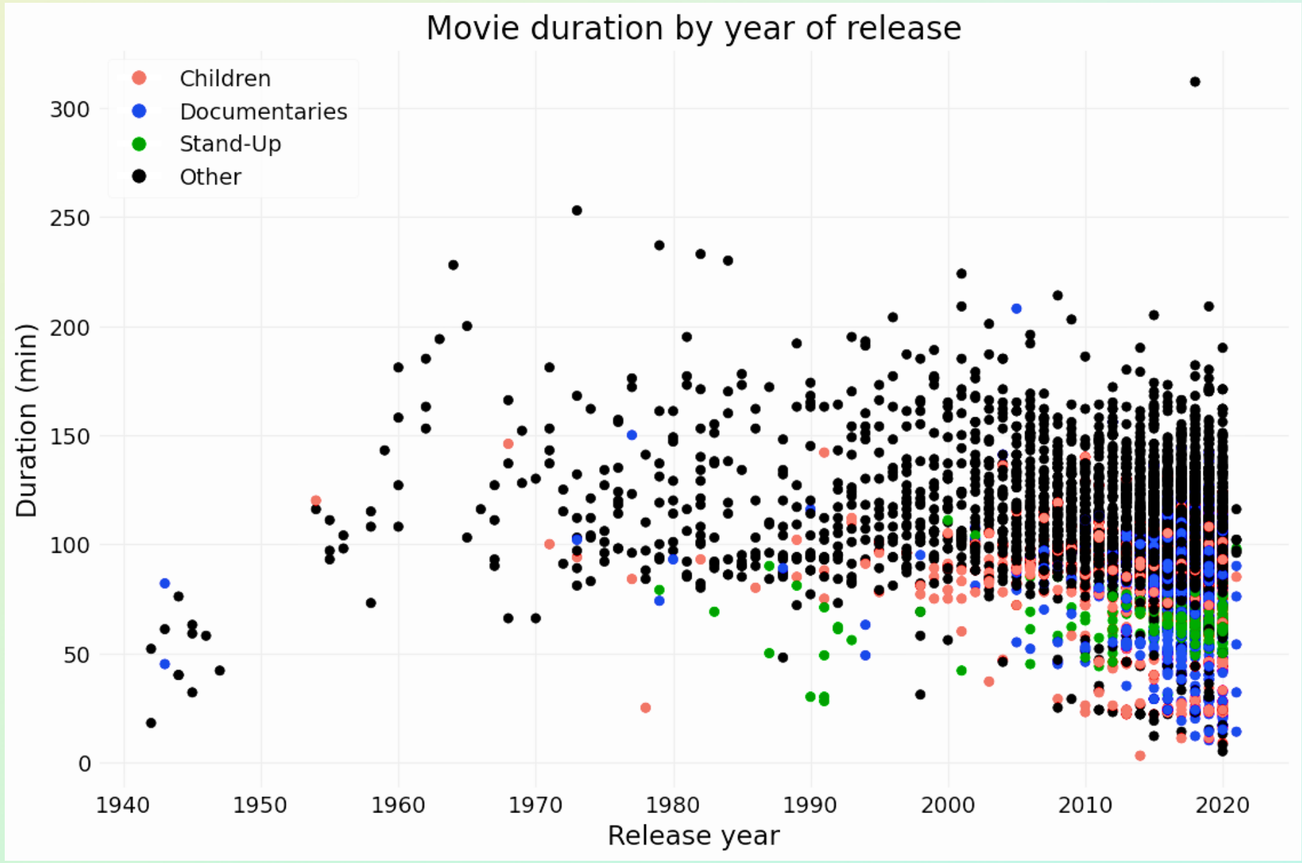
1. Data Analysis on Netflix's dataset.
2. Preprocessing the data for analysis.
3. Computing summary statistics of movie durations.
4. Analyzing the distribution of movie durations.
5. Interpreting the results and drawing meaningful insights.
6. Presenting findings through visualizations and charts.

Results and Finding

- The average movie durations for the years 2011 to 2020 approximately were as follows: 100,99, 100, 99, 95, 95, 96, 93, and 90 minutes, respectively.
- A line plot was created to visualize the trend of movie durations over time.
- The scatter plot showed a wider range of movie durations and revealed that there are many shorter movies (under 60 minutes) in recent years(2018-2020).
- Genres such as "Children," "Documentaries," and "Stand-Up" tend to have shorter movie durations.

Visual Evidence





Conclusion

- The analysis indicates a slight decrease in the average movie duration on Netflix, mainly due to the higher number of short movies in genres like children, stand-up, and documentaries.
- Most categories have maintained consistent movie durations, but the rise in short movies has contributed to an overall decline in the average duration on Netflix.
- These findings reflect changing viewer preferences, with a growing demand for shorter content in specific genres.
- The analysis showcases the power of data analysis in uncovering industry trends, providing valuable insights for content creators and platforms like Netflix.

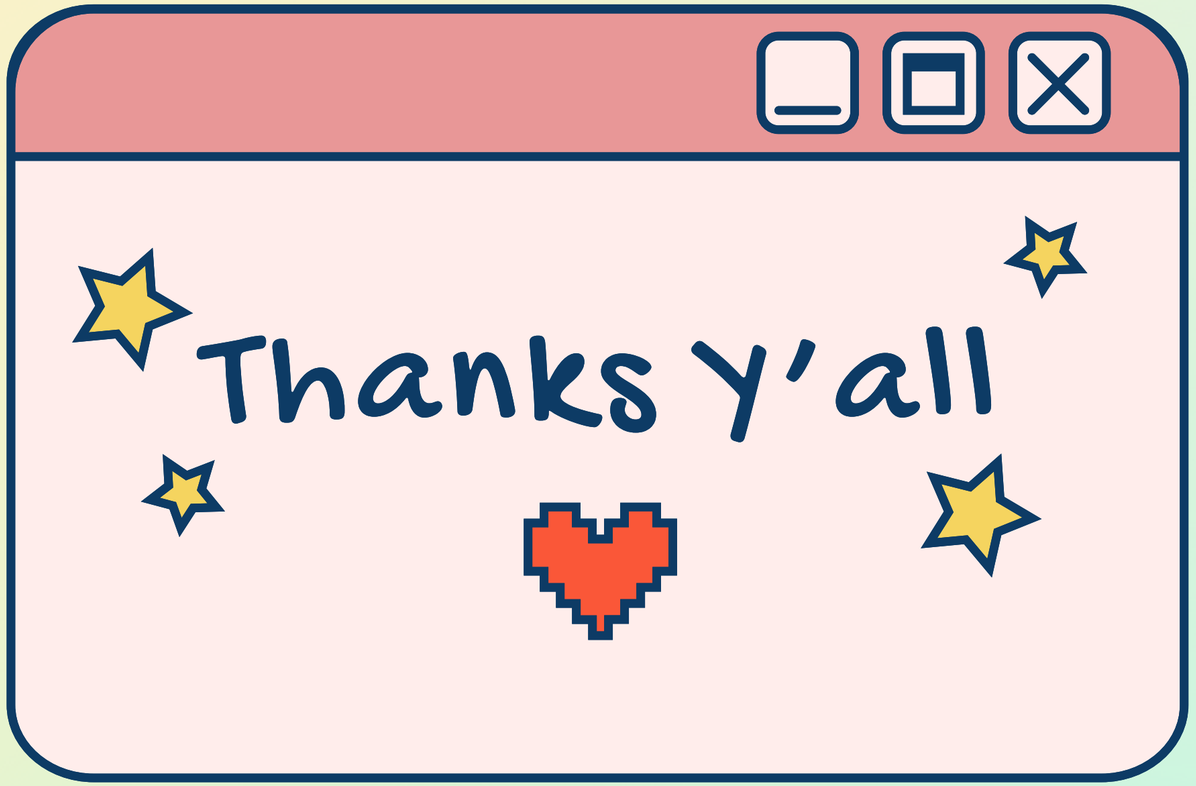
Acknowledgments and Project Link

- **Acknowledgment to DataCamp**: I would like to express my gratitude to DataCamp for providing valuable courses and resources that have contributed to my learning journey and the completion of this project.
- **Acknowledgment to Kaggle**: I would like to acknowledge Kaggle for providing the dataset used in this project. The dataset from Kaggle has been instrumental in conducting the analysis and deriving meaningful insights.

To access the code and detailed documentation for this project, please visit the my GitHub repository by Clicking Here

Future Scope

- Further research can explore the impact of movie duration on viewer engagement, retention, and user satisfaction on platforms like Netflix.
- Analyzing the effectiveness of shorter formats in catering to changing attention spans and enhancing user experiences.
- Leveraging advanced analytics techniques, such as machine learning and natural language processing, to predict viewer preferences and trends in the entertainment industry.
- Investigating the influence of movie duration on the success of different genres and their performance in the global market.
- These areas of exploration can provide valuable insights for content creators and streaming platforms.


Thanks Y'all