

Data Mining Project

Team Members

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Dataset collection

- Source of the dataset : Kaggle
- Dataset name : Most watched movies and series
- Size: 1.34MB
- Number of attributes : 7
- 1.Rank
- 2.Title
- 3.Type
- 4.Gener
- 5.Premiere
- 6.watch time
- 7.watch time in million



Description of attributes in the dataset

- 1.Rank : Each Tv show, or movie is ordered according to their watch time in desending order
- 2.Title: Name of the TV show or movies
- 3.Type: TV show or movie
- 4.Genre: Action , Drama, Thriller etc.
- 5. Premier: official release of the content year
- 6.Watch time: Total number of hours watched
- 7. Watch time in millions: Total number of hours watched in millions

Data mining tools

- Jupyter Notebook
- Python
- Libraries :
 - **Pandas** handles data loading, cleaning, and transformation.
 - **Seaborn** and **Matplotlib** are used for creating various types of visualizations to explore and present the data.
 - **Scikit-learn** is used for preprocessing (scaling and encoding) and for performing the clustering algorithm

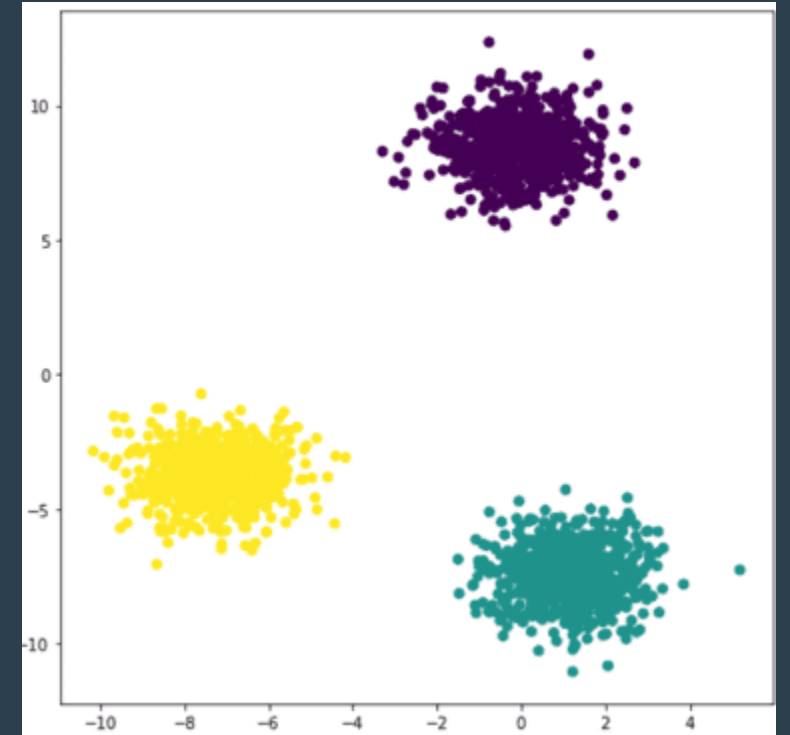
Data Cleaning

- Data cleaning involves fixing or removing incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within a data set



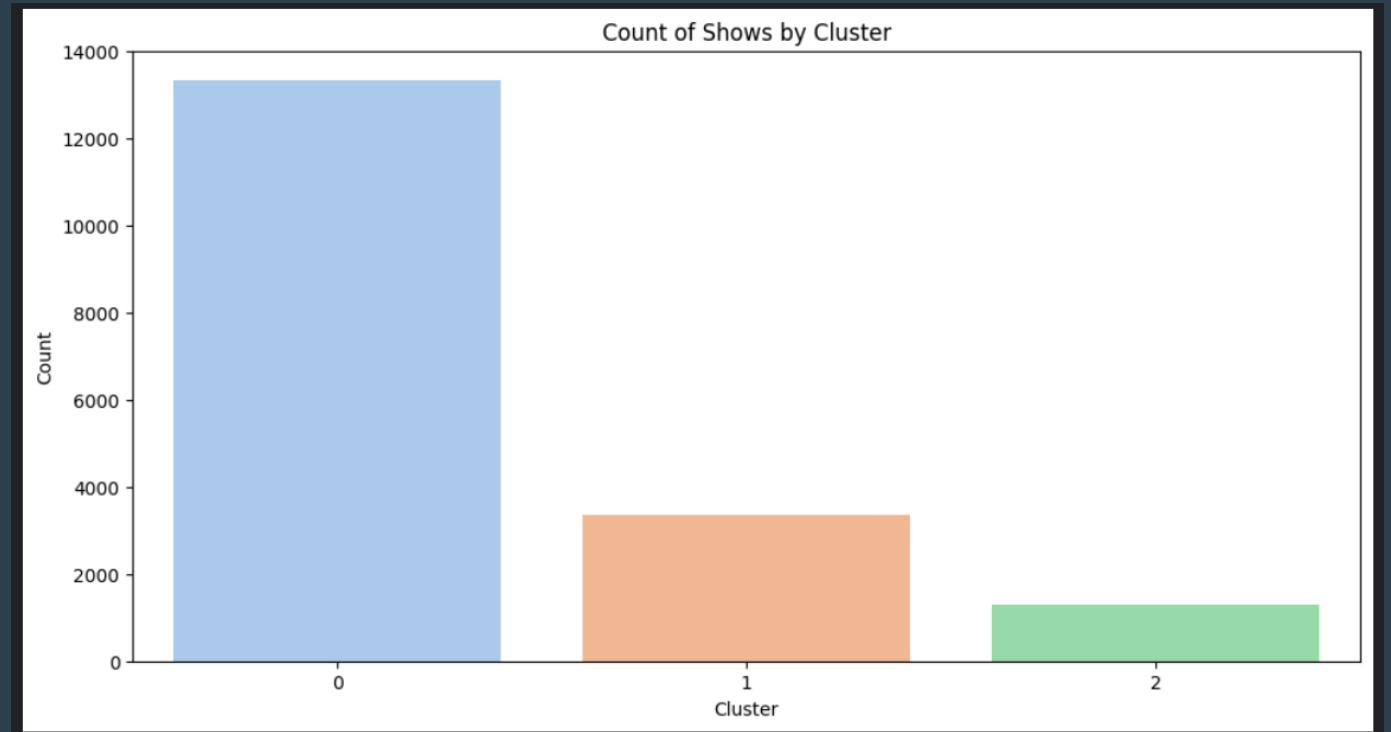
Data mining task

- Clustering
- Objective: Group genre of movies and tv show which have different watch time
- Task: Group the genre according to similarity in watch time
- Algorithm: K-Means Algorithm



Findings after running the Algorithm

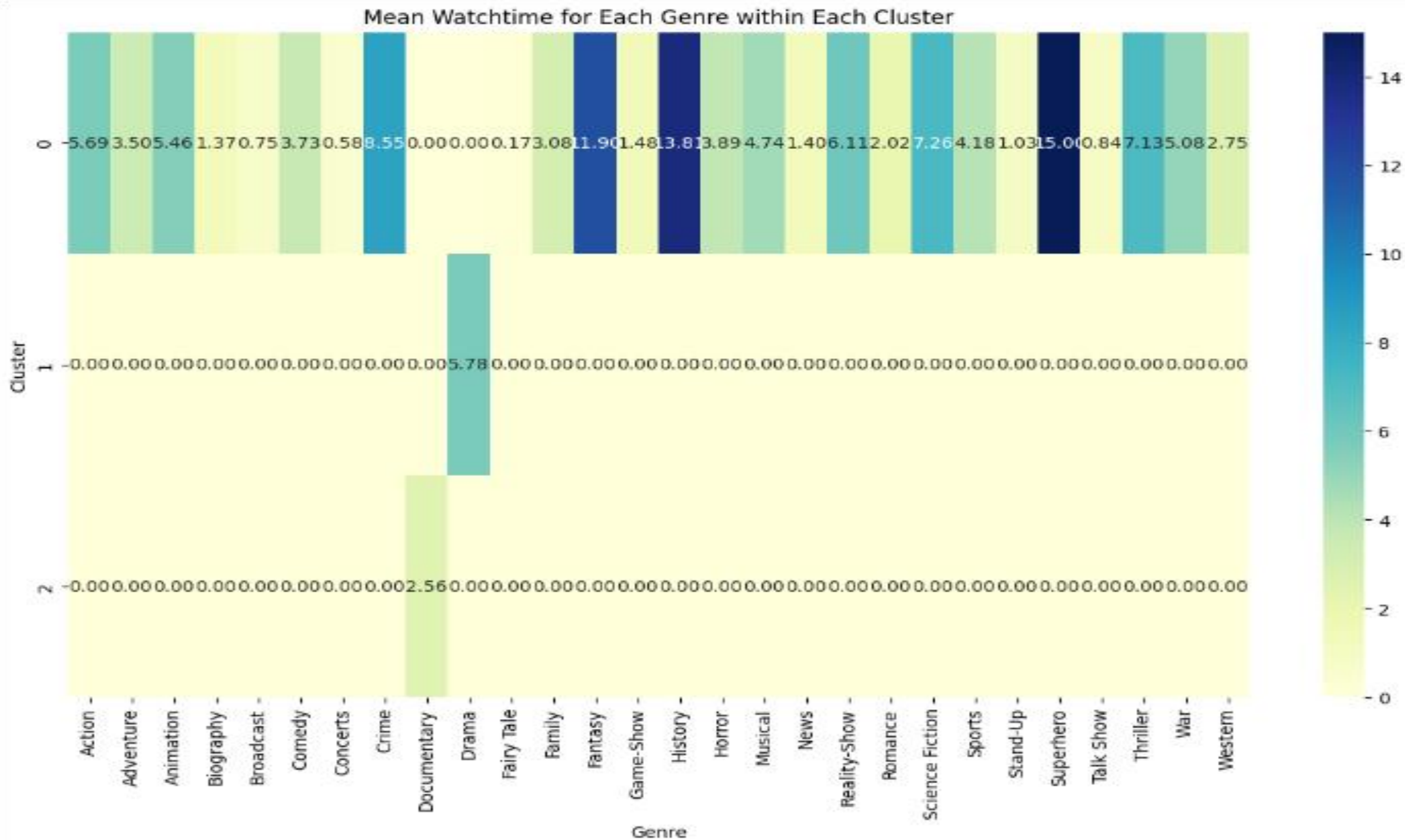
- The cluster are divided into 0,1 and 2 where 0 cluster has more watch time and 1 has less watch time than 0 and 2 is the least watch time



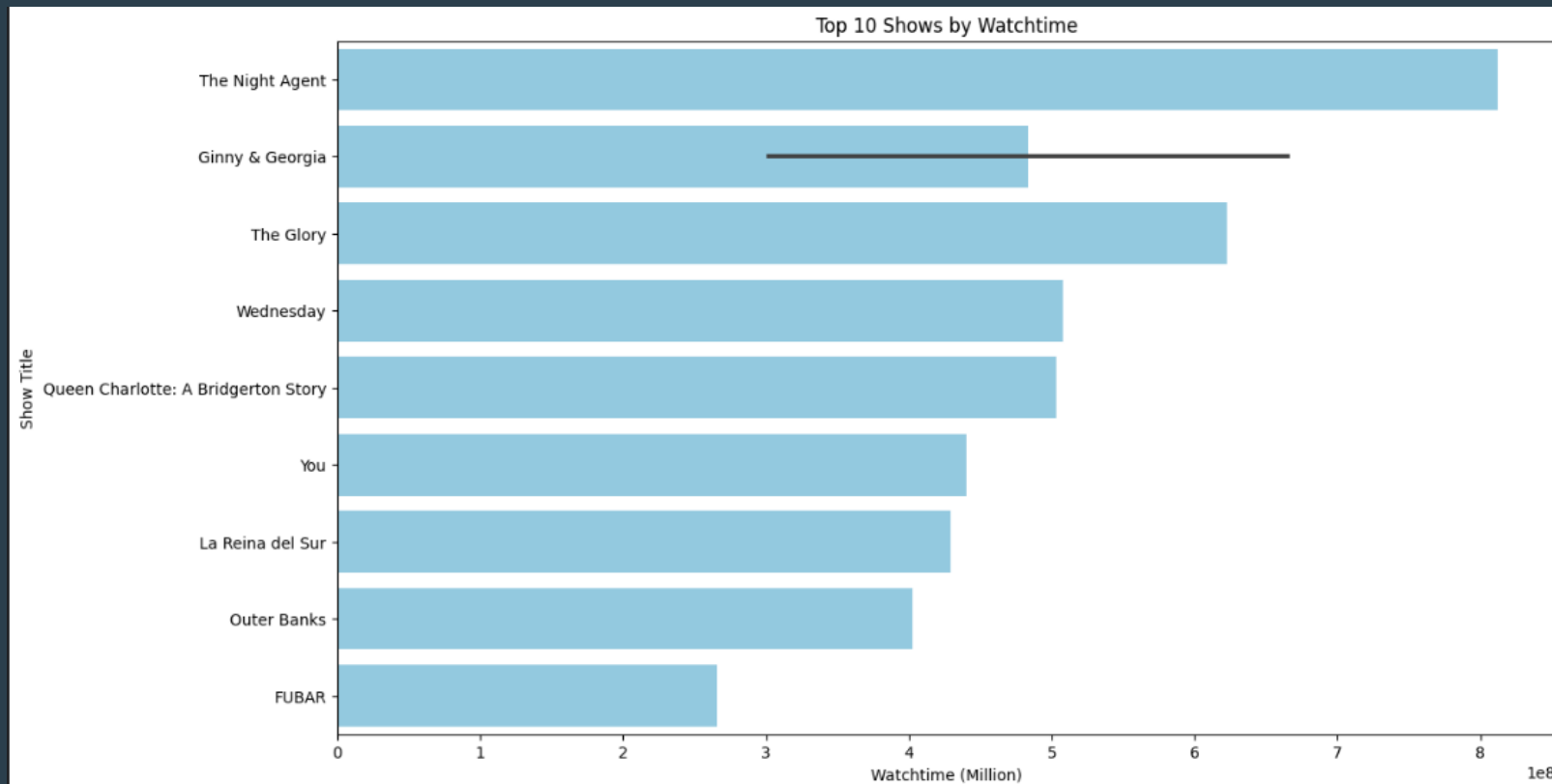
Genre in each Cluster

- In the cluster 0 there are several genre
- In the cluster 1 there is one genre
- In the cluster 2 there is one genre


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[3 rows x 28 columns]
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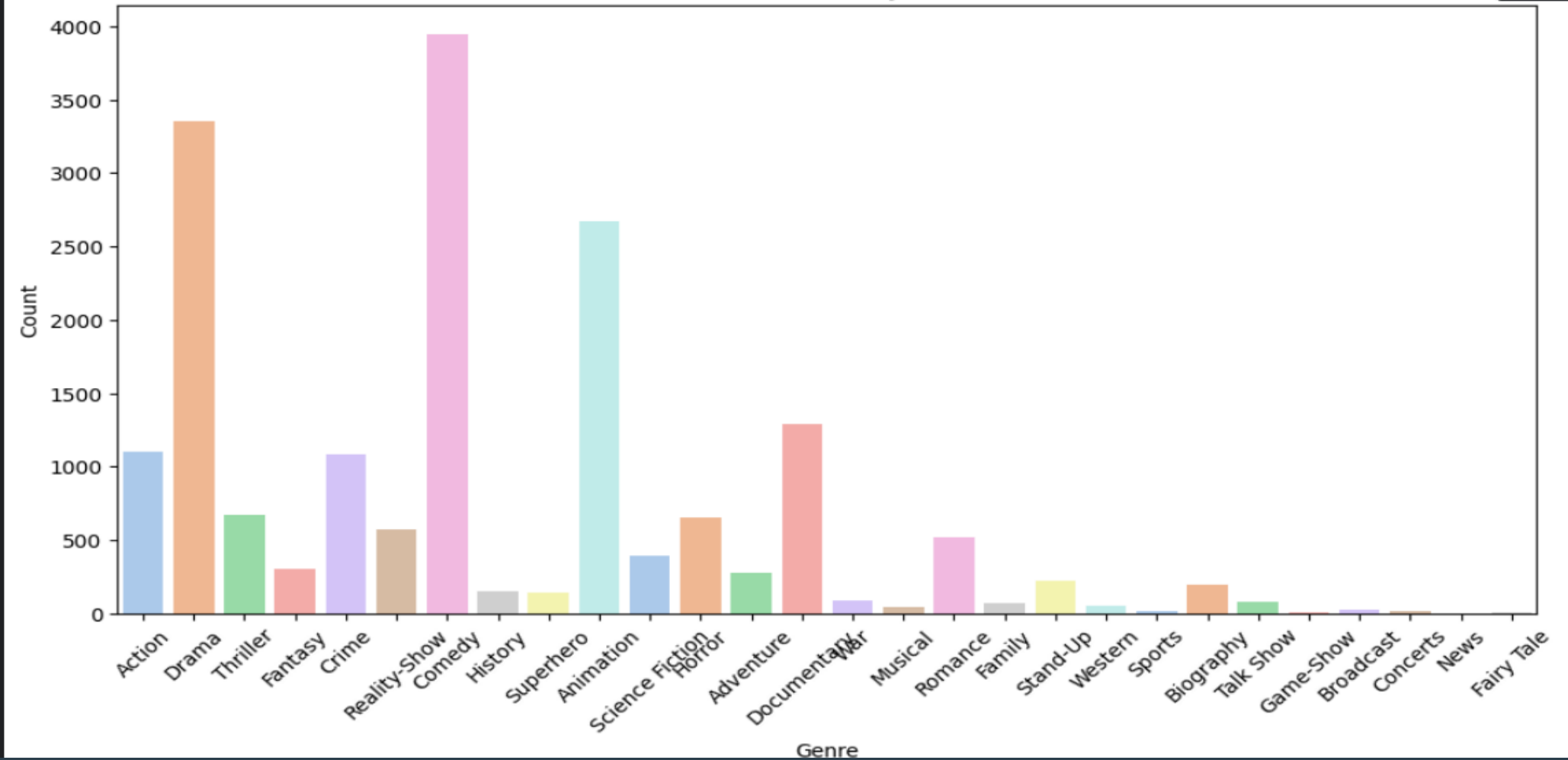


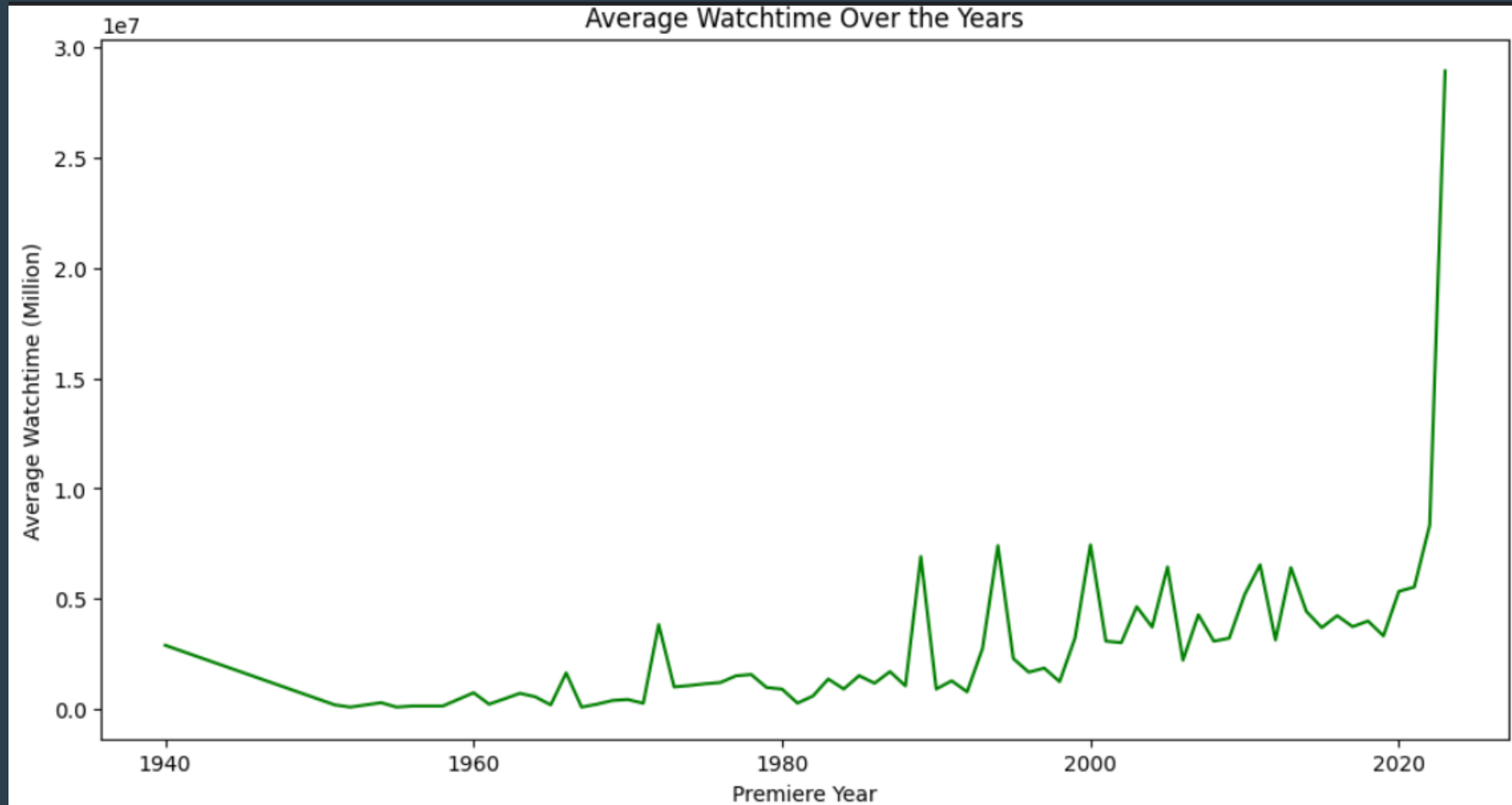
Other Findings



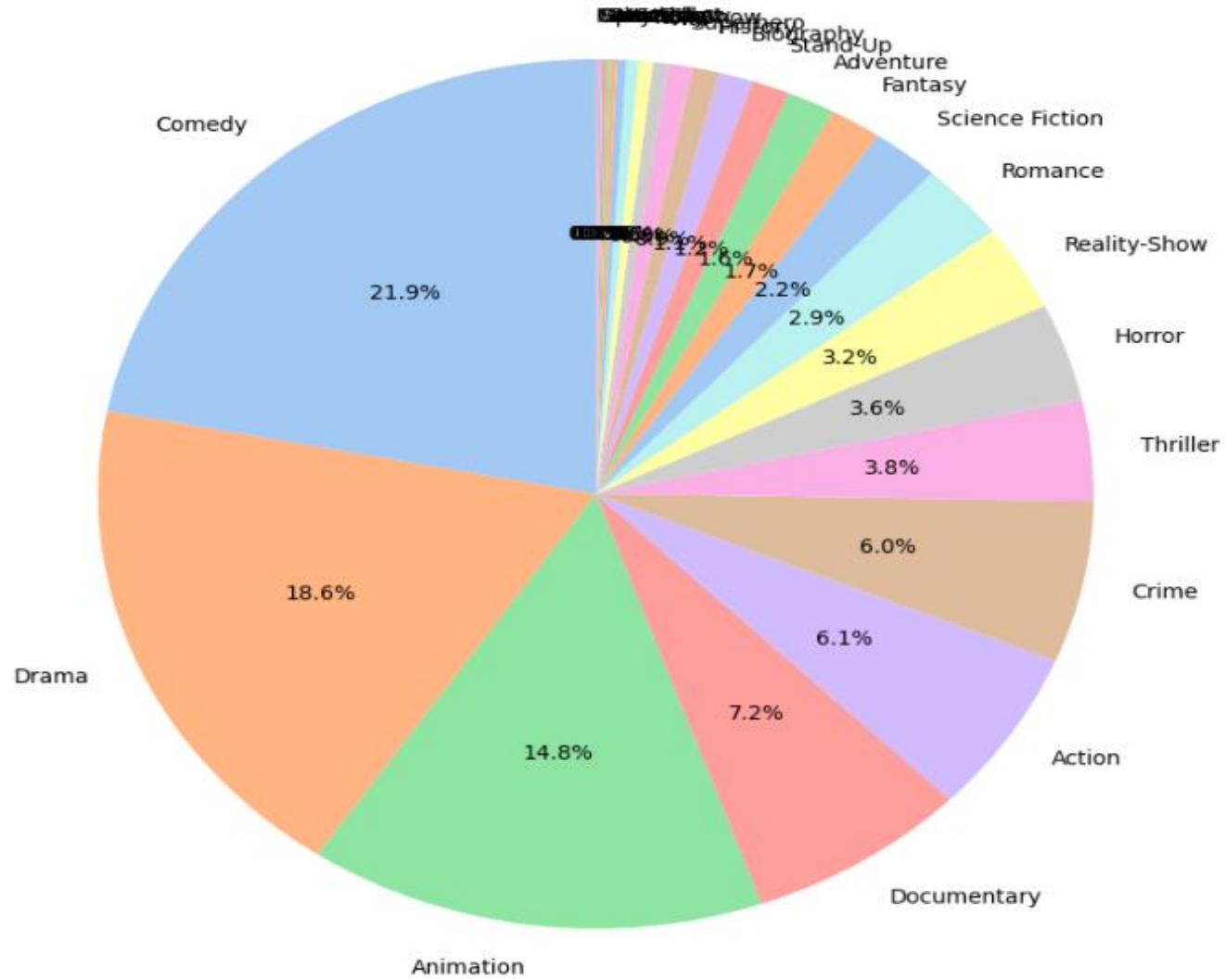
Count of Shows by Genre

[More s](#)





Genre Distribution



THANK you