Home TV Shows

Movies

Recently Added

My List



Comparing **Stream** Services

2021 Thriller TV-G

Can data provide the Team Cobra with the much needed insight before time runs out?

Directors:

Brennan, Ed Leopold, Madison

Cast:

Deng, Chris Nguyen, Ben Ye, Emily







TV Shows

Movies

Recently Added

My List





Menu Overview





GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION



ne TV Shows

Movies

Recently Added

My List

 $Q \blacktriangle$

Goals

Project Track: EDA in Digital Entertainment

Project Hypothesis:

Are there unique differences <u>between</u> each service's brand, as told by their offerings?







OVERVIEW

GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION

ne TV Shows

Movies

Recently Added

My List





Process

Data Sourcing:

- Kaggle

Data Adjacency:

- Dataset "type"
- Same authors

















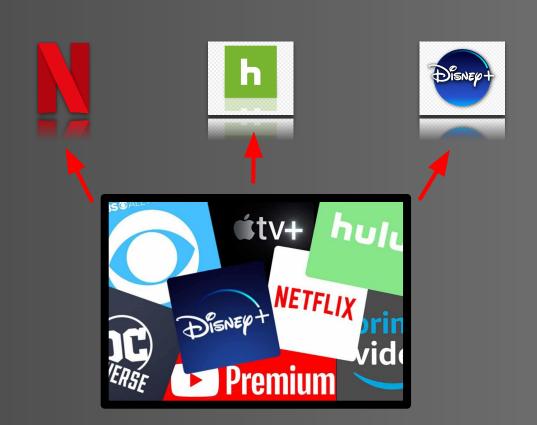
PennFlix

Which Streaming Stream?:

Top 3 focused services

Team Distribution:

- One service / one member
 - cleaning
 - analysis
 - visualization



OVERVIEW

GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION





Technical

Cleaning:

```
for loops
if-elif statements
user-defined functions
(9 \text{ databases: } 30k \rightarrow \sim 5k)
```

```
return df.loc[:, input_column].dropna(axis = 0).str.split(',', expand = False).tolist()
#extract function to pull out categorical data
                                              loop through a provided list to see if the list contains nans
                                              if it does, nan_remover will remove the nans and return a new list
                                              # check for nulls or NaNs
                                             nan_check = [x for x in input_list if np.isnan(x) == True]
                                             nan_removed = []
                                            if len(nan_check) == 0:
                                               return "No nulls found"
                                           if len(nan_check) > 0:
                                               for value in input_list:
                                                  if np.isnan(value) == False:
                                                     nan_removed.append(value)
                                          return nan_removed
```

def extract(df, input_column):







Technical

```
#determine how many bins
print(earliest_year, latest_year, (latest_year earliest_year)//5 + 1)

earliest_year
```

Visualization:

```
plt.plot
plt.subplot
bar, pie, line, hist, box
```

Analysis:

```
.mean
```

- .median
- .mode

```
print(earliest_year, latest_year, (latest_year - earliest_year))/5 + 1, grid = False)
          rt_mean_tv = np.mean(rttv_nn)
          rt_median_tv = median(rttv_nn)
```

rt_mode_tv = mode(rttv_nn)



TV Shows

Movies

Recently Added

My List



Analysis by Platform

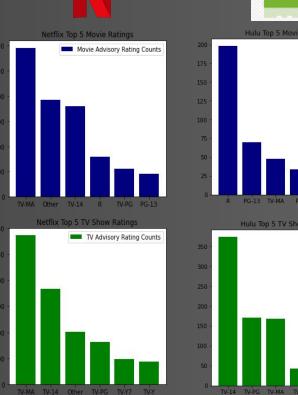
Top 5 Advisory Ratings

Movie:

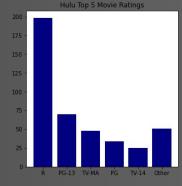
- Netflix/Hulu mature audiences
- Disney+ children

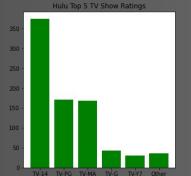
TV:

- Netflix mature audiences
- Hulu adolescent
- Disney+ children

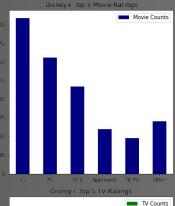


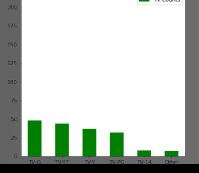












Home TV Shows Recently Added My List Movies





Analysis by Platform

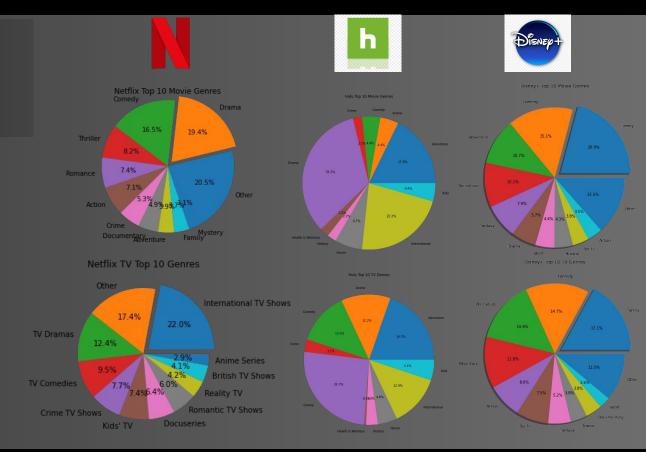
Top 10 Genres

Movie:

- Netflix/Hulu Drama
- Disney+ Family

TV Shows:

- Netflix International More accessibility
- Hulu Drama
- Disney+ Family



OVERVIEW

GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION



TV Shows

Movies

Recently Added

My List



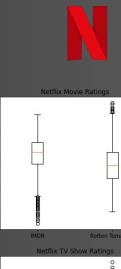


Analysis by **Platform**

Critical Reception

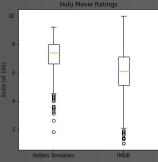
IMDB - general public reception **Rotten Tomatoes - Critical reception**

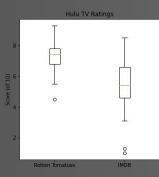
- For the most part, Rotten Tomatoes has a lower rating average
- **Hulu Rotten Tomatoes Rating the least** spread



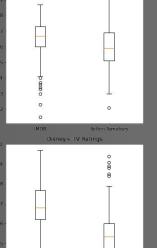
















PROCESS

TECHNICAL

ANALYSIS

REFLECTION



TV Shows

Movies

Recently Added

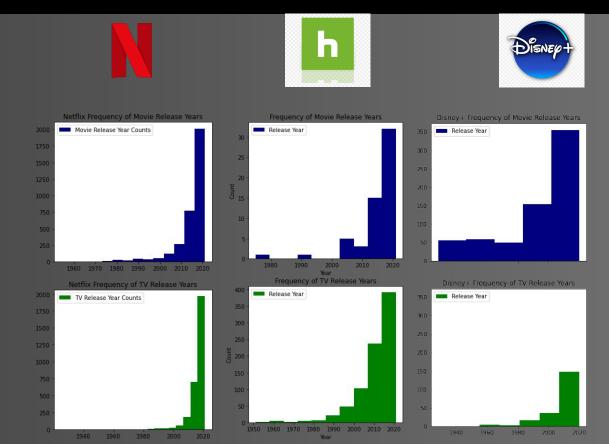
My List





Release Frequency by Year

- Most of the offerings are up to date, within the past 10-20 years
- 21st century, film industry growth
- Earlier release dates, not as common, perhaps older audiences aren't as attracted



OVERVIEW

GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION



TV Shows

Movies

Recently Added

My List



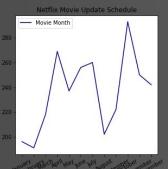


Analysis by **Platform**

Update Schedule

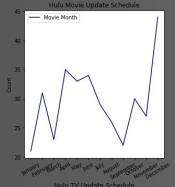
- Disney+ spike closer to the holidays
- General upward trend for Hulu and Netflix as the year progresses

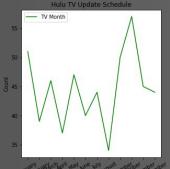




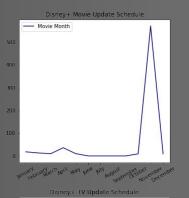


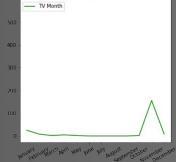












OVERVIEW

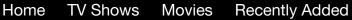
GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION



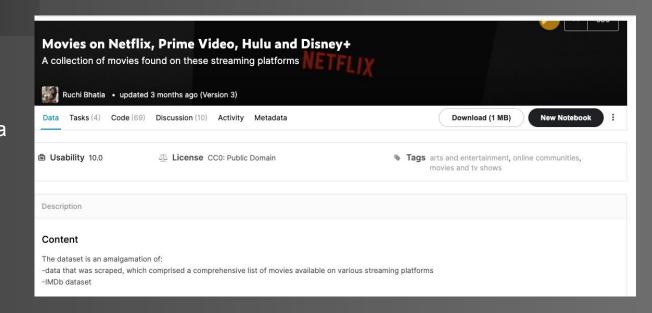




Reflections

On our Data

- Limited data, limited scope
 - Mostly categorical data
- Difficult to verify data and analysis
- Limited insight into original source and context for data



OVERVIEW

GOALS

PROCESS

TECHNICAL

ANALYSIS

REFLECTION

My List









On Topics for Further Exploration

- Content
 - Implications for e.g., consumer behavior, platform "success" (e.g. profit, subscription #s/growth, etc.)
 - Leverage for more expansive topics e.g. entertainment, comparisons to more traditional landscapes for movies/tv shows, etc.
 - Longer term trends e.g. Disney+'s maturation over time

Home

- Pair w/ qualitative analysis
- Technical
 - Code refactoring





ne TV Shows

Movies

Recently Added

My List

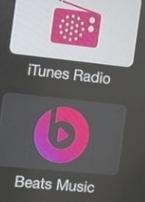
























Thank you for tuning in! Open for questions!









♥ LIKE