

# Problem Statement

#### WHERE DOES THE SOURCE OF SUCCESS RESIDE?

The problem at hand is to identify the key factors and values that have contributed to the tremendous success of Disney as a company.

LET'S GET STARTED



## Benefits of Analysis



#### **Continued Success**

This analysis can
provide valuable
insights into how other
organizations can
replicate Disney's
success and improve
their own performance in
the industry.



#### **Director Success**

This analysis offers a

perspective on the

correlation between a

director's contribution and

the success of a movie, as

measured by the total gross

income attributed to that

director.



#### **Movie Success**

This analysis offers

valuable insights into

how the genre and title

of a movie contribute to

the success of Disney

films.

### Methodology

1.

To compare values
between the movies'
total gross dataset
and Disney
directors dataset,

I merged the two
datasets.

2.

I utilized groupby
functions to
establish the
relationship
between directors,
genre, rating, top
movies, release
date, and total
gross income.

3.

Visualizations were **generated** to illustrate the relationship between these distinct values. A machine learning model was then created to predict the director based off the movie title.

## Challenges

1.

To deal with the challenge of having the total gross income format in a string that included symbols like '\$' and ',', I resolved the issue by utilizing the replace function and converting the string into an integer format.

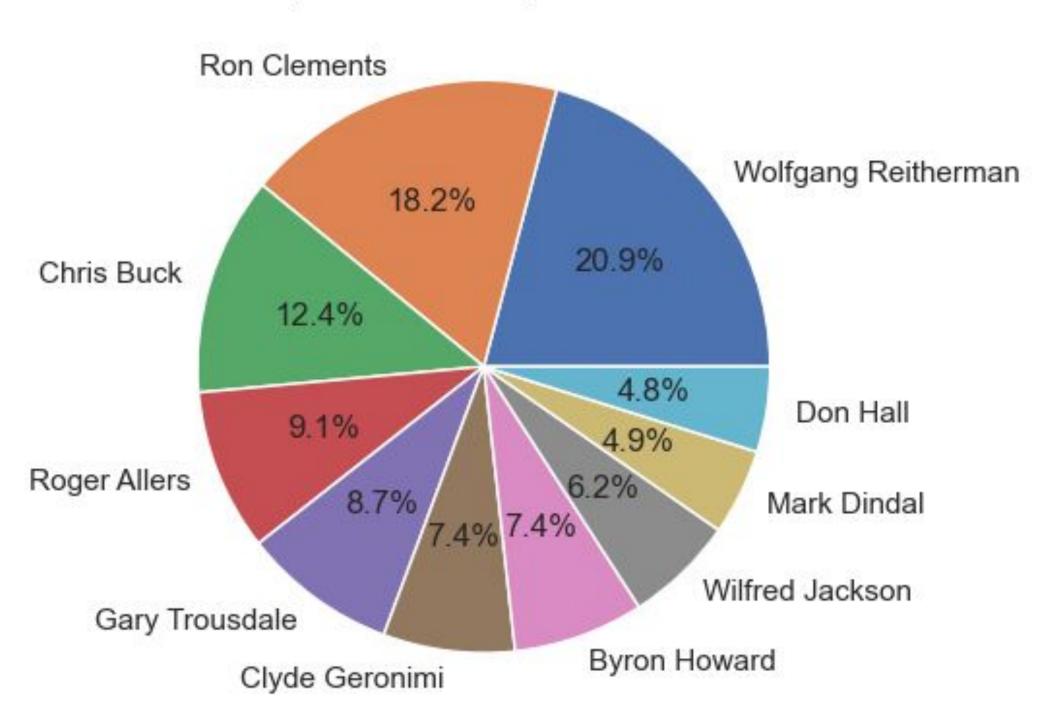
2.

While developing a scatter plot visualization for top-grossing movies, I encountered an issue where the highest values were displayed at the bottom of the chart. To resolve this, I sorted the total gross values in ascending order.

## Which top ten directors performed the best?

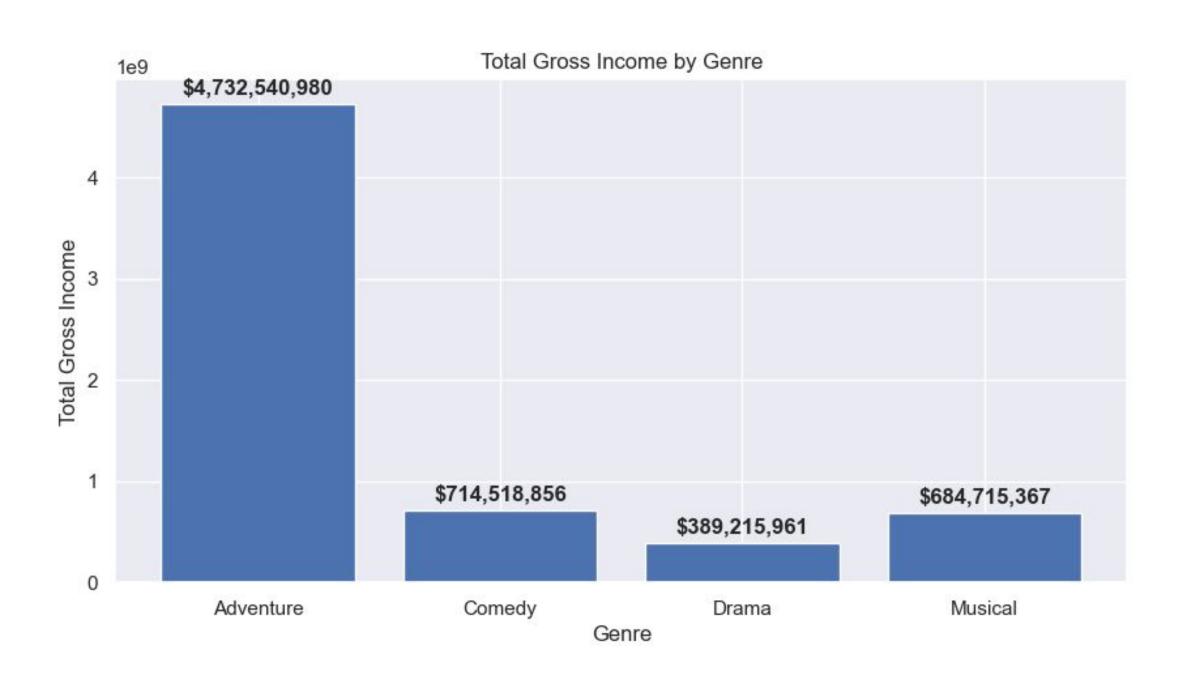
Top 10 Directors by Total Gross

Wolfgang
Reitherman is the top director,
then Ron
Clements, then
Chris Buck.



## Which genre performed the best?

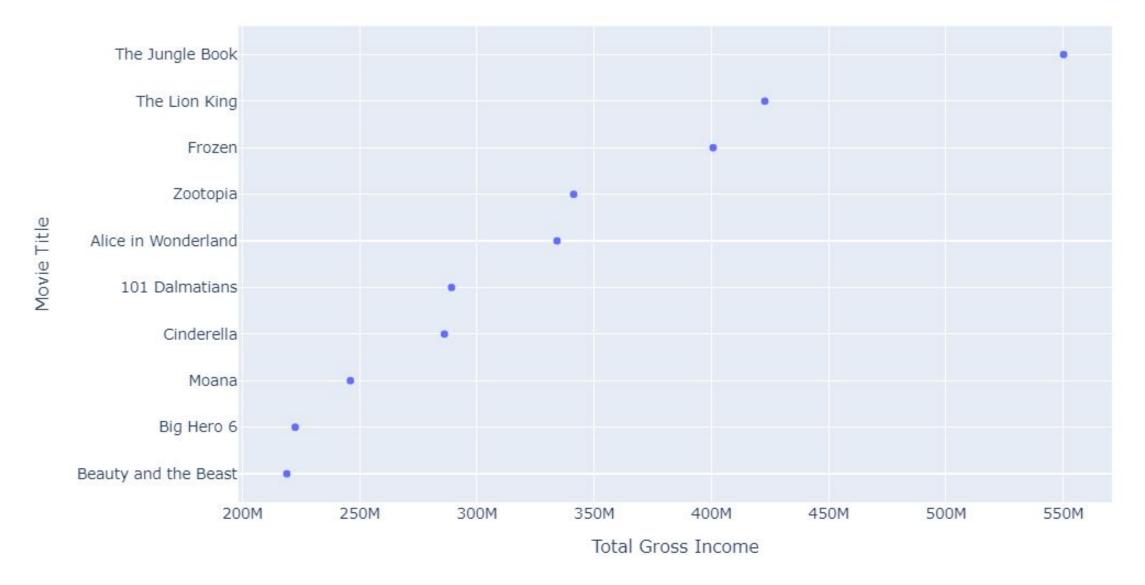
Adventure performed the best regarding total gross income.



## Which movie performed the best?

Jungle Book
performed the best
due to the 3
Jungle Book movies
being recorded in
the dataset





## Does the rating affect the gross income?

Total Gross Income by MPAA Rating

1B

2B

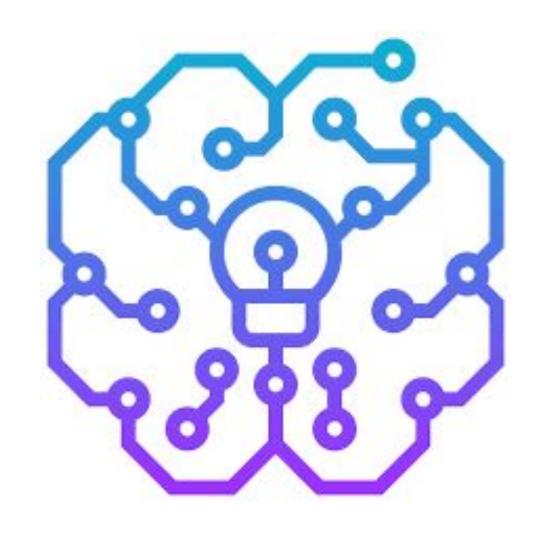
3B

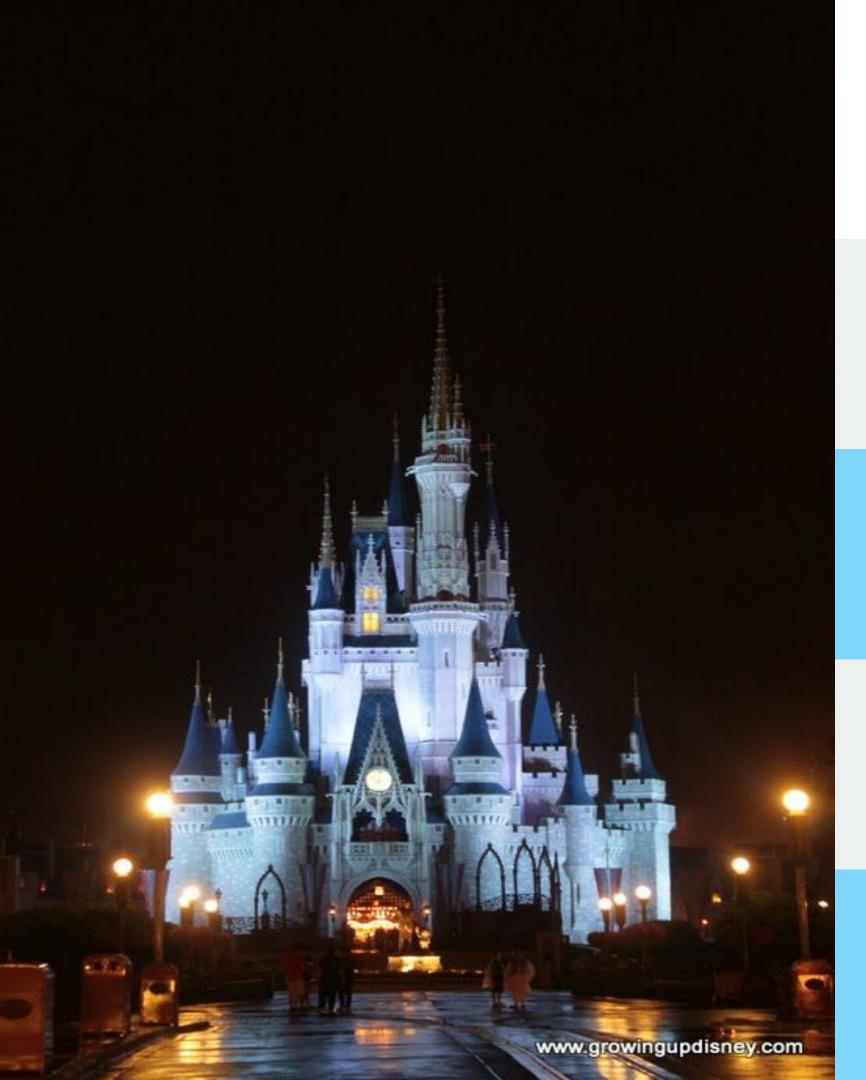
Not Rated

The rating between PG and G movies in regards to total gross income does not show a large Not Rated difference, as not rated provides less income.

## **Machine Learning Model**

I trained a machine learning model to accurately predict the director of a movie based on its title input. The model performed well and produced accurate director predictions.





#### Recommendations

#### **DIRECTORS**

To maintain success in movies, it is advisable to either retain the same directors for future projects or select directors who possess a similar directing style.

#### MOVIES

Generating sequels for successful movies or those with a comparable style is recommended.

#### **GENRE**

It's important to produce a larger number of adventure-themed movies while creating films since they generally perform well.

#### **RATING**

Keep ratings of movies to either PG or G as Not Rated does not provide as much income as the other ratings.

#### Future Work

Hire Diverse and emerging directors

Focus on family-friendly movies different genres

Experiment with

Expand to different ratings

Disney could expand its pool of movie directors by hiring more diverse and emerging talents. This could bring fresh perspectives and storytelling techniques to their movies.

Disney has built a strong brand around family-friendly movies, and they could continue this trend by producing more movies that families can enjoy together.

While Disney is well-known for its animated and fantasy movies, they could also explore other genres like action, comedy, drama, and science fiction to appeal to a wider range of audiences.

Disney could also explore producing movies with higher ratings like PG-13 or even R-rated movies. This could appeal to older audiences and allow Disney to explore more mature themes and stories.



## Thank you!

Questions?