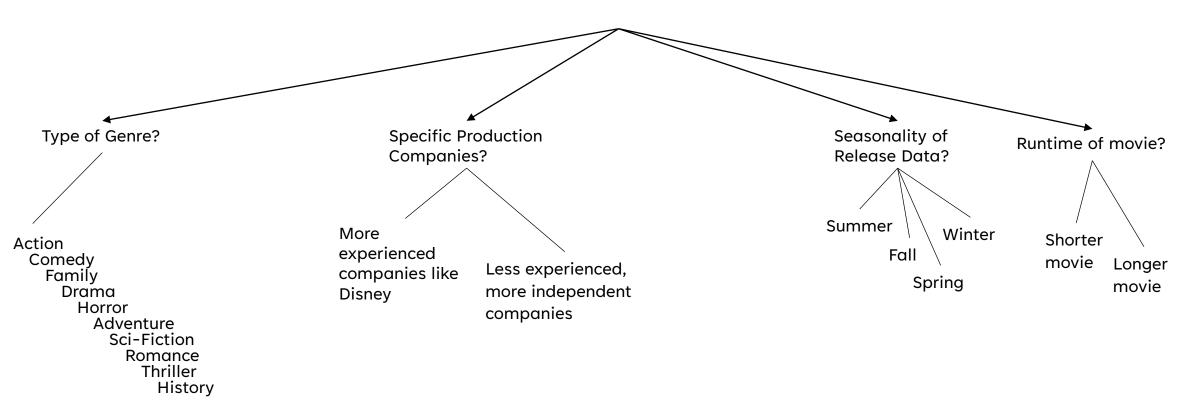


# PROBLEM STATEMENT

What are the **key movie features** the **top 5% movies** have compared to the **bottom 95% movies** when considering **profits**?

## **ISSUE TREE**

What are the key movie features the top 5% movies have compared to the bottom 95% movies when considering profits?





Drama, Comedy, and Romance are most common genres to both Top and Bottom movies.

### RELEASE DATE

Q2 and Q4 are most profitable for Top Movies.

All quarters are loss for Bottom Movies

# PRODUCTION COMPANY

Productive production companies make many movies.

Some are top grossing or most are not. Hit or miss.

## MOVIE RUNTIME

Median runtime of 100 mins similar for Top and Bottom Movies.

## ANALYSIS OVERVIEW

What drives the profitability for the Top 5% of movies?

Profit = Revenue - Budget

### GENRE

Compare profits by genres for Top and Bottom Movies to find the most common genres and most/least profitable.

#### RELEASE DATE

Compare profits by quarter for Top and Bottom Movies to find the most profitable release date.

# PRODUCTION COMPANY

Compare profits by production companies for Top and Bottom Movies to find the most common genres and most/least profitable.

### MOVIE RUNTIME

Compare profits by runtime for Top and Bottom Movies to find any correlation.

## LIMITATIONS AND BIASES

### Limitation

 Raw data is messy, have to be parsed to separate out like genre and production companies.

#### **Data Collection**

- Popularity and voter ratings were sourced from 1 website GroupLens.
- Potential errors as dataset was assembled as part of an education coursework and not an official release with quality checks.

## **Data Processing**

- Missing data for some fields.
- Mislabel data for some fields.

### **Data Insights**

Profit defined by Revenue – Budget may not be present the P/E relationship. There could be extraneous factors like tax incentives, insurance payouts, etc.

# **NEXT STEPS**

- 1. Perform actual data analysis.
- 2. Impute missing values
- 3. Remove outliers.
- 4. Expand to include other datasets.
- 5. Expand to include analysis of other features and multivariate analysis for combination of features.