

TMDB Movie Data Analysis



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INTRODUCTION

- A production company wants to analyse a movie data set to identify what kinds of movies perform well in cinemas which genre they belong to, and so on. It will help the company predict if a movie will be commercial success, if the movie will be highly rated, etc.
- the objective of the project is to use Python programming to analyse a movie data to perform exploratory data analysis

SOLVING METHODOLOGY

- 01 Data Collection
- 02 Data Cleaning
- 03 Data Analysis



TOP 10 MOVIES WITH HIGHEST REVENUE

- maximum from the top 10 movies belongs to Action genre

| original_title | genres | revenue |
|----------------------------|-----------------|------------|
| Avatar | Action | 2787965087 |
| Titanic | Drama | 1845034188 |
| The Avengers | Science Fiction | 1519557910 |
| Jurassic World | Action | 1513528810 |
| Furious 7 | Action | 1506249360 |
| Avengers: Age of Ultron | Action | 1405403694 |
| Frozen | Animation | 1274219009 |
| Iron Man 3 | Action | 1215439994 |
| Minions | Family | 1156730962 |
| Captain America: Civil War | Adventure | 1153304495 |

LEAST POPULAR MOVIES



- Only one movie with action genre is their in the list of least popular movies.

| original_title | popularity | genres |
|-------------------------------------------------|------------|-------------|
| The Book of Mormon Movie, Volume 1: The Journey | 0.031947 | Drama |
| Limbo | 0.034259 | Adventure |
| Fiza | 0.043023 | Drama |
| Bran Nue Dae | 0.050456 | Comedy |
| The Nutcracker | 0.068228 | Family |
| Pink Ribbons, Inc. | 0.097913 | Documentary |
| Sholem Aleichem: Laughing In The Darkness | 0.109579 | Documentary |
| Burn | 0.126676 | Foreign |
| Sweet Sweetback's Baadasssss Song | 0.132878 | Action |
| Inchon | 0.146783 | Drama |

| production_companies | |
|----------------------------------------|-----|
| Paramount Pictures | 248 |
| Universal Pictures | 223 |
| Columbia Pictures | 161 |
| Twentieth Century Fox Film Corporation | 151 |
| New Line Cinema | 130 |
| Walt Disney Pictures | 90 |
| Village Roadshow Pictures | 63 |
| Miramax Films | 55 |
| United Artists | 54 |
| DreamWorks SKG | 54 |
| Columbia Pictures Corporation | 52 |
| Warner Bros. | 49 |
| Fox Searchlight Pictures | 41 |
| Summit Entertainment | 40 |
| TriStar Pictures | 36 |
| Metro-Goldwyn-Mayer (MGM) | 29 |
| The Weinstein Company | 26 |
| Lionsgate | 26 |
| Regency Enterprises | 25 |
| Imagine Entertainment | 24 |
| Touchstone Pictures | 22 |
| Lakeshore Entertainment | 21 |
| Dimension Films | 20 |
| Lions Gate Films | 19 |
| Ingenious Film Partners | 17 |

Name: title, dtype: int64

TOP 25 PRODUCTION COMPANIES

These are the Top 25 production companies based on the number of movies they've produced.

CORRELATION

| | |
|----------------------|------|
| Budget & Popularity | 0.42 |
| Budget & Revenue | 0.7 |
| Popularity & Revenue | 0.59 |

- There is a positive relationship between the budget and popularity.
- There's no systematic relationship between revenue & budget.
- There is a positive relationship between the revenue and popularity.

CONCLUSION



- There is more possibility of action genre movies to fall in the most popular movies.
- It's not necessary that only high budget movies would ear high revenue.



THANK YOU!

