

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 earn high revenue.





THANK YOU!

