IMDB Movie Analysis



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- Problem Description: The goal of this IMDb movie analysis is to explore a comprehensive dataset containing information about various movies, including attributes such as IMDb ratings, budgets, gross earnings, director names, genres, and actors. By conducting this analysis, I aim to gain valuable insights into the trends, patterns, and preferences in the world of cinema and answer key questions related to movie ratings, profitability, popular genres, and influential figures in the industry.
- Approach: The IMDb movie analysis involves loading, preprocessing and cleaning the dataset, analyzing the distribution and trends, exploring and identifying the exact data. The approach includes grouping data, finding the reason and analyzing the impact. Influential actors' influence on movie performance and top-rated, top-grossing movies for actors will be examined with visualizations.
- Tech-stack used: The tech stack for IMDb movie analysis involves Microsoft Excel
 for data loading, preprocessing, and calculations. Excel's functions and features are
 used for IMDb ratings distribution, profit calculation, genre analysis, and actor statistics.
 Charts and graphs are utilized for visualizations, enabling the exploration of trends and
 insights in the movie dataset.

• Case Study:

- Cleaning the data: This is the most significant initial step to perform analysis like removing redundant data, null values, etc.
- 2. Movies with highest profit: Find out the movies that have the highest profit with observing outliers.
- 3. Top 250: Find out the topmost 250 movies that has highest IMDB score. Find the same for foreign language movies.
- 4. Best Directors: In this task find out the top 10 best directors those who have highest mean of IMDB ratings
- 5. Popular Genres: In this task find out the popular genres.
- 6. Critic and Audience fav actors: In this task find out the favourite actors who have the highest critic and user reviews while having the combined chart of the sum of voted users vs its decades.

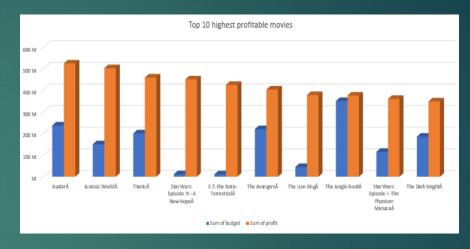
Case Study 1: Cleaning the data

- Removed all duplicate values
- Removed all null values
- Removed all redundant and cluttered values

Insights: After cleaning the dataset, there were a total of 3724 rows and 14 columns.

Case Study 2: Movies with highest profit

Movie title	Sum of budget	Sum of profit
AvatarÂ	237 M	524 M
Jurassic WorldÂ	150 M	502 M
TitanicÂ	200 M	459 M
Star Wars: Episode IV - A New HopeÂ	11 M	450 M
E.T. the Extra-TerrestrialÂ	11 M	424 M
The AvengersÂ	220 M	403 M
The Lion KingÂ	45 M	378 M
The Jungle BookÂ	350 M	375 M
Star Wars: Episode I - The Phantom MenaceÂ	115 M	360 M
The Dark KnightÂ	185 M	348 M



Insights: From this chart we can say that movies with high budget and good script are able to make maximum profit.

Case Study 3: Top 250

movie_title	language ~	imdb_so ~
The Shawshank RedemptionÂ	English	9.3
The GodfatherÂ	English	9.2
The Dark KnightÂ	English	9
The Godfather: Part IIÂ	English	9
The Lord of the Rings: The Return of the KingÂ	English	8.9
The Good, the Bad and the UglyÂ	Italian	8.9
Pulp FictionÂ	English	8.9
Schindler's ListÂ	English	8.9
The Lord of the Rings: The Fellowship of the RingÂ	English	8.8
Star Wars: Episode V - The Empire Strikes BackÂ	English	8.8
InceptionÂ	English	8.8
Forrest GumpÂ	English	8.8
Fight ClubÂ	English	8.8
The Lord of the Rings: The Two TowersÂ	English	8.7
The MatrixÂ	English	8.7
Seven SamuraiÂ	Japanese	8.7
Star Wars: Episode IV - A New HopeÂ	English	8.7
One Flew Over the Cuckoo's NestÂ	English	8.7
GoodfellasÂ	English	8.7
City of GodÂ	Portuguese	8.7
The Silence of the LambsÂ	English	8.6
The Usual SuspectsÂ	English	8.6
Spirited AwayÂ	Japanese	8.6
Saving Private RyanÂ	English	8.6
Se7enÂ	English	8.6
Modern TimesÂ	English	8.6
InterstellarÂ	English	8.6
American History XÂ	English	8.6
WhiplashÂ	English	8.5
The Lives of OthersÂ	German	8.5
The PianistÂ	English	8.5
The DepartedÂ	English	8.5
The Dark Knight RisesÂ	English	8.5
The PrestigeÂ	English	8.5
The Lion KingÂ	English	8.5
The Green MileÂ	English	8.5
Terminator 2: Judgment DayÂ	English	8.5
SamsaraÂ	None	8.5
Raiders of the Lost ArkÂ	English	8.5
PsvchoÂ	English	8.5
MementoÂ	English	8.5

GladiatorÂ	English	8.5
Django UnchainedÂ	English	8.5
Children of HeavenÂ	Persian	8.5
Back to the FutureÂ	English	8.5
Apocalypse NowÂ	English	8.5
AlienÂ	English	8.5
WALLÂ-EÂ	English	8.4
Star Wars: Episode VI - Return of the JediÂ	English	8.4
Requiem for a DreamÂ	English	8.4
Princess MononokeÂ	Japanese	8.4
Reservoir DogsÂ	English	8.4
Once Upon a Time in AmericaÂ	English	8.4
OldboyÂ	Korean	8.4
Lawrence of ArabiaÂ	English	8.4
Das BootÂ	German	8.4
BraveheartÂ	English	8.4
A SeparationÂ	Persian	8.4
American BeautyÂ	English	8.4
AliensÂ	English	8.4
AmélieÂ	French	8.4
UnforgivenÂ	English	8.3
UpÂ	English	8.3
The StingÂ	English	8.3
Toy Story 3Â	English	8.3
Toy StoryÂ	English	8.3
The HuntÂ	Danish	8.3
Some Like It HotÂ	English	8.3
SnatchÂ	English	8.3
Raging BullÂ	English	8.3
RoomÂ	English	8.3
ScarfaceÂ	English	8.3
Monty Python and the Holy GrailÂ	English	8.3
MetropolisÂ	German	8.3
L.A. ConfidentialÂ	English	8.3
Inglourious BasterdsÂ	English	8.3
Indiana Jones and the Last CrusadeÂ	English	8.3
Good Will HuntingÂ	English	8.3
Inside OutÂ	English	8.3
Hoop DreamsÂ	English	8.3
DownfallÂ	German	8.3
Eternal Sunshine of the Spotless MindÂ	English	8.3
2001: A Space OdysseyÂ	English	8.3
Batman BeginsÂ	English	8.3
AmadeusÂ	English	8.3

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	The CelebrationÂ	Danish	8.1
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	Sin CitvÂ	English	8.1

Case Study 3: Top 250

Shutter IslandÂ	English	8.1
Stand by MeÂ	English	8.1
PlatoonÂ	English	8.1
RockyÂ	English	8.1
Pirates of the Caribbean: The Curse of the Black PearlÂ	English	8.1
No Country for Old Menâ	English	8.1
RushÂ	English	8.1
PrisonersÂ	English	8.1
Monsters, Inc.Â	English	8.1
Million Dollar BabvÂ	English	8.1
Jurassic ParkÂ	English	8.1
Mad Max: Fury RoadÂ	English	8.1
KIII BIII: Vol. 1Â	English	8.1
In the Shadow of the MoonÂ	English	8.1
Guardians of the GalaxyÂ	English	8.1
Hotel RwandaÂ	English	8.1
Gone GirlÂ	English	8.1
Groundhog DayÂ	English	8.1
Donnie DarkoÂ		8.1
Elite SquadÂ	English Portuguese	8.1
Butch Cassidy and the Sundance KidÂ	English	8.1
DeadpoolÂ		8.1
12 Years a SlaveÂ	English	8.1
12 Years a SlaveA Before SunriseÂ	English	8.1
AkiraÂ	English	
Annie HallÂ	Japanese	8.1 8.1
Annie HallA Amores PerrosÂ	English	
Amores Perrosa The Sound of MusicÂ	Spanish	8.1
Waltz with BashirÂ	English	8
	Hebrew	8
X-Men: Days of Future PastÂ	English	
The Straight StoryÂ	English	8
Young FrankensteinÂ	English	8
True RomanceÂ	English	8
The Pursuit of HappynessÂ	English	8
The Perks of Being a WallflowerÂ	English	8
The ExorcistÂ	English	8
The IncrediblesÂ	English	8
The Iron GiantÂ	English	8
The King's SpeechÂ	English	8
SickoÂ	English	8
Shaun of the DeadÂ	English	8
Star TrekÂ	English	8
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Walk the Line English The Untouchables English	The WrestlerÂ	English	7
The Untouchables English	The World's Fastest IndianÂ	English	7
	Walk the LineÂ	English	7
	The UntouchablesÂ	English	7
Toy Story 2Ä English	Toy Story 2Â	English	7
The Remains of the Day English	The Remains of the DayÂ	English	7
The Second Mother Portuguese	The Second MotherÂ	Portuguese	7
The Insider English	The InsiderÂ	English	7
The Hateful Eight English	The Hateful EightÂ	English	- 7

The FighterÂ	English	7.9
The Hobbit: The Desolation of SmaugÂ	English	7.9
The NotebookÂ	English	7.9
The Right StuffÂ	English	7.9
The Blues BrothersÂ	English	7.9
The ChorusÂ	French	7.9
The Bourne IdentityÂ	English	7.9
Straight Outta ComptonÂ	English	7.9
TakenÂ	English	7.9
ShrekÂ	English	7.9
Nine QueensÂ	Spanish	7.9
NightcrawlerÂ	English	7.9
OnceÂ	English	7.9
MoonÂ	English	7.9
Letters from Iwo JimaÂ	Japanese	7.9
My Fair LadyÂ	English	7.9
Iron ManÂ	English	7.9
Little Miss SunshineÂ	English	7.9
HeroÂ	Mandarin	7.9
Hot FuzzÂ	English	7.9
How to Train Your Dragon 2Â	English	7.9
Ed WoodÂ	English	7.9
Do the Right ThingÂ	English	7.9
Edward ScissorhandsÂ	English	7.9
Captain PhillipsÂ	English	7.9
E.T. the Extra-TerrestrialÂ	English	7.9
Children of MenÂ	English	7.9
Edge of TomorrowÂ	English	7.9
CrashÂ	English	7.9
Ernest & CelestineÂ	French	7.9
Crouching Tiger, Hidden DragonÂ	Mandarin	7.9
4 Months, 3 Weeks and 2 DaysÂ	Romanian	7.9
Big Hero 6Â	English	7.9

Insights: From this chart we can see that there are maximum English movies in the list since English is used in almost every part of the world along with good script and acting.

Case Study 3: Top Foreign language movies from top 250 movies

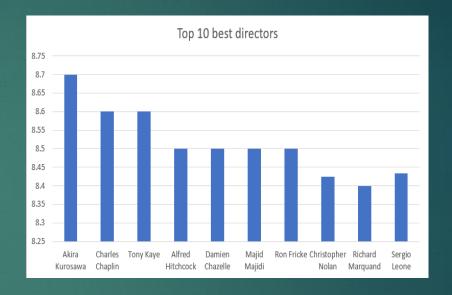
movie_title	Ŧ	language -	T,	imdb_sc 🔻
The Good, the Bad and the UglyÂ		Italian		8.9
Seven SamuraiÂ		Japanese		8.7
City of GodÂ		Portuguese		8.7
Spirited AwayÂ		Japanese		8.6
The Lives of OthersÂ		German		8.5
SamsaraÂ		None		8.5
Children of HeavenÂ		Persian		8.5
Princess MononokeÂ		Japanese		8.4
OldboyÂ		Korean		8.4
Das BootÂ		German		8.4
A SeparationÂ		Persian		8.4
AmélieÂ		French		8.4
The HuntÂ		Danish		8.3
MetropolisÂ		German		8.3
DownfallÂ		German		8.3
The Secret in Their EyesÂ		Spanish		8.2
The Act of KillingÂ		Indonesian		8.2
Pan's LabyrinthÂ		Spanish		8.2
IncendiesÂ		French		8.2
Howl's Moving CastleÂ		Japanese		8.2
The Sea InsideÂ		Spanish		8.1
Tae Guk Gi: The Brotherhood of WarÂ		Korean		8.1
The CelebrationÂ		Danish		8.1

Elite SquadÂ	Portuguese	8.1
AkiraÂ	Japanese	8.1
Amores PerrosÂ	Spanish	8.1
Waltz with BashirÂ	Hebrew	8
PersepolisÂ	French	8
My Name Is KhanÂ	Hindi	8
Central StationÂ	Portuguese	8
A Fistful of DollarsÂ	Italian	8
The Second MotherÂ	Portuguese	7.9
The ChorusÂ	French	7.9
Nine QueensÂ	Spanish	7.9
Letters from Iwo JimaÂ	Japanese	7.9
HeroÂ	Mandarin	7.9
Ernest & CelestineÂ	French	7.9
Crouching Tiger, Hidden DragonÂ	Mandarin	7.9
4 Months, 3 Weeks and 2 DaysÂ	Romanian	7.9

Insights: From this chart we can see that there were a total of 39 movies in foreign language.

Case Study 4: Top 10 best directors who have the highest mean IMDB rating.

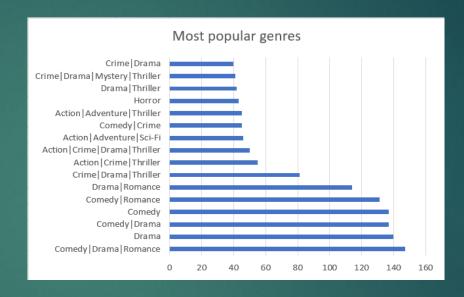
rank	top 10 directors	mean_imdb_score
1	Akira Kurosawa	8.7
2	Charles Chaplin	8.6
3	Tony Kaye	8.6
4	Alfred Hitchcock	8.5
5	Damien Chazelle	8.5
6	Majid Majidi	8.5
7	Ron Fricke	8.5
8	Christopher Nolan	8.4
9	Richard Marquand	8.4
10	Sergio Leone	8.4



Insights: From this we can see that directors Akira Kurosawa and Charles Chaplin have the highest mean IMDB score with 8.7 and 8.6 ratings respectively.

Case Study 5: Popular genres.

rank	Genres	Count of Genres
1	Comedy Drama Romance	147
2	Drama	140
3	Comedy Drama	137
4	Comedy	137
5	Comedy Romance	131
6	Drama Romance	114
7	Crime Drama Thriller	81
8	Action Crime Thriller	55
9	Action Crime Drama Thriller	50
10	Action Adventure Sci-Fi	46
11	Comedy Crime	45
12	Action Adventure Thriller	45
13	Horror	43
14	Drama Thriller	42
15	Crime Drama Mystery Thrille	41
16	Crime Drama	40

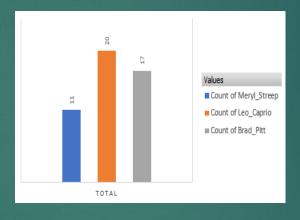


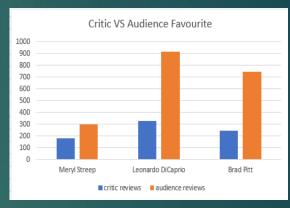
Insights: From this we can see that comedy, drama and romance are the most liked genres by the audience.

Case Study 6: Critic and audience favourite actors.

i. All the movies done by actors Meryl Streep, Leonardo DiCaprio, Brad Pitt, their counts and their respective reviews from critics and users.

Meryl_Streep	Leo_Caprio	Brad_Pitt
A Prairie Home CompanionÂ	Blood DiamondÂ	BabelÂ
Hope SpringsÂ	Body of LiesÂ	By the SeaÂ
It's ComplicatedÂ	Catch Me If You CanÂ	Fight ClubÂ
Julie & JuliaÂ	Django UnchainedÂ	FuryÂ
Lions for LambsÂ	Gangs of New YorkÂ	Interview with the Vampire: The Vampire ChroniclesÂ
One True ThingÂ	InceptionÂ	Killing Them SoftlyÂ
Out of AfricaÂ	J. EdgarÂ	Mr. & Mrs. SmithÂ
The Devil Wears PradaÂ	Marvin's RoomÂ	Ocean's ElevenÂ
The HoursÂ	Revolutionary RoadÂ	Ocean's TwelveÂ
The Iron LadyÂ	Romeo + JulietÂ	Seven Years in TibetÂ
The River WildÂ	Shutter IslandÂ	Sinbad: Legend of the Seven SeasÂ
	The AviatorÂ	Spy GameÂ
	The BeachÂ	The Assassination of Jesse James by the Coward Robert FordÂ
	The DepartedÂ	The Curious Case of Benjamin ButtonÂ
	The Great GatsbyÂ	The Tree of LifeÂ
	The Man in the Iron MaskÂ	TroyÂ
	The Quick and the DeadÂ	True RomanceÂ
	The RevenantÂ	
	The Wolf of Wall StreetÂ	
	TitanicÂ	

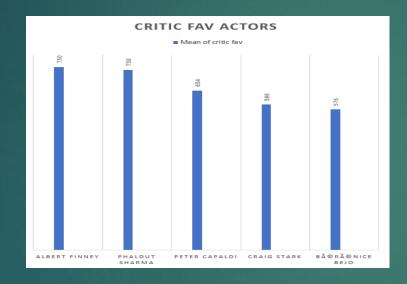


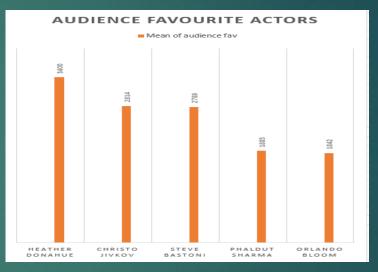


Insights: From this we can see that Leonardo DiCaprio has done the highest number of movies among the three actors and no doubt he is the most favourite actor of both the audience and critics.

Case Study 5: Critic and audience favourite actors.

ii. Actors who have the overall highest mean of critic and audience reviews respectively.



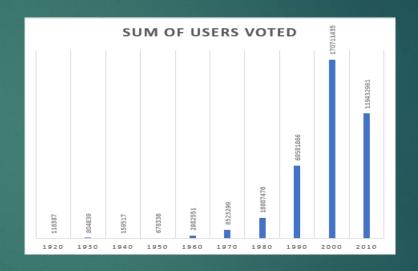


Insights: From this we can see that Albert Finney is the critic favourite actor and Heather Donahue is the audience favourite actor.

Case Study 5: Critic and audience favourite actors.

iii. Observe the change in the number of voted users over the decades.

df_by_decade	sum of users voted
1920	116387
1930	804839
1940	159517
1950	678336
1960	2982551
1970	8523299
1980	19987476
1990	69581866
2000	170711435
2010	119432961



Insights: From this we can see that the number of voters has been increasing over the decades but has experienced a significant decrease in the most recent decade.

Results:

During the course of this project, I have achieved several key outcomes and gained valuable knowledge through the results obtained:

- 1. IMDb Top 250 Movies: Identified the top 250 movies based on IMDb ratings, providing insights into the most highly acclaimed films.
- 2. Profitable Movies: Determined the top-grossing movies by calculating profits from the difference between gross earnings and budgets, understanding financial success in the film industry.
- 3. Best Directors: Analyzed directors' IMDb scores and identified the top 10 directors with the highest mean ratings, recognizing influential figures in cinema.
- 4. Popular Genres: Explored genre distributions and their impact on IMDb ratings and earnings, understanding audience preferences.
- 5. Critic and Audience Favorite Actors: Identified actors whose movies received the highest mean critic and audience reviews, acknowledging actors' influence on movie performance.

Through these analyses, I have gained insights into the factors contributing to a movie's success, including IMDb ratings, profitability, and audience preferences. I now understand the significance of directors and actors in shaping a film's reception and the impact of genres on movie ratings and earnings. Additionally, I have honed my data analysis skills, including data preprocessing, visualization, and statistical analysis, using Excel. This project has provided me with a deeper understanding of the movie industry's dynamics and the tools necessary for effective data analysis.

Link to the excel file: https://docs.google.com/spreadsheets/d/1HIXHkM-bd_cKskoummgqxOgiCM9P5-np/edit?usp=sharing&ouid=110621318643149679011&rtpof=true&sd=true

THANK YOU