

PROJECT DESCRIPTION

- The project is about IMDB movies analysis dataset which contains the data regarding the movies information like actor's name, movie title and budget.. Etc.
- As an analyst extracting useful and meaningful insights from the data is important.
- So that we can get insights like profit of the movie etc.

APPROACH

- My approach for this project is to understand the dataset and thinking of methods on how to get particular answer for that particular question.
- Checking for the error's in the dataset like missing of the null values.

TECH-STACK USED:

To Analyze and extract

meaning full insights from

the data I have used

Microsoft Excel 2022



INSIGHTS

- By analyzing the data of IMDB movies I have gained various insights from the data like top director's, top 250 movies.. Etc.
- Using the pivot tables for solving various problems.
- Individual rating's of the particular star's (or) actor and presenting them in the visualization form.

CLEANING THE DATA

	■ num_critic_for_rev = gross ■ genres	actor_1_name	movie_title	→ num_voted_u: √ langua
Frank Darabont	199 2.8E+07 Crime Drama	Morgan Freeman	The Shawshank Redemption	1689764 English
Francis Ford Coppola	208 1.3E+08 Crime Drama	Al Pacino	The Godfather	1155770 English
Christopher Nolan	645 5.3E+08 Action Crime Drama Thriller	Christian Bale	The Dark Knight	1676169 English
Francis Ford Coppola	149 5.7E+07 Crime Drama	Robert De Niro	The Godfather: Part II	790926 English
Peter Jackson	328 3.8E+08 Action Adventure Drama Fantasy	Orlando Bloom	The Lord of the Rings: The Return of the King	1215718 English
Quentin Tarantino	215 1.1E+08 Crime Drama	Bruce Willis	Pulp Fiction	1324680 English
Steven Spielberg	174 9.6E+07 Biography Drama History	Liam Neeson	Schindler's List	865020 English
Sergio Leone	181 6100000 Western	Clint Eastwood	The Good, the Bad and the Ugly	503509 Italian
Robert Zemeckis	149 3.3E+08 ComedylDrama	Tom Hanks	Forrest Gump	1251222 English
Irvin Kershner	223 2.9E+08 Action Adventure Fantasy Sci-Fi	Harrison Ford	Star Wars: Episode V - The Empire Strikes Back	837759 English
Peter Jackson	297 3.1E+08 Action Adventure Drama Fantasy	Christopher Lee	The Lord of the Rings: The Fellowship of the Ring	1238746 English
Christopher Nolan	642 2.9E+08 Action Adventure Sci-Fi Thriller	Leonardo DiCaprio	Inception	1468200 English
David Fincher	315 3.7E+07 Drama	Brad Pitt	Fight Club	1347461 English
George Lucas	282 4.6E+08 Action Adventure Fantasy Sci-Fi	Harrison Ford	Star Wars: Episode IV - A New Hope	911097 English
Peter Jackson	294 3.4E+08 Action Adventure Drama Fantasy	Christopher Lee	The Lord of the Rings: The Two Towers	1100446 English
Lana Wachowski	313 1.7E+08 Action Sci-Fi	Keanu Reeves	The Matrix	1217752 English
Milos Forman	149 1.1E+08 Drama	Scatman Crothers	One Flew Over the Cuckoo's Nest	680041 English
Martin Scorsese	192 4.7E+07 BiographylCrime Drama	Robert De Niro	Goodfellas	728685 English
Fernando Meirelles	214 7563397 Crime Drama	Alice Braga	City of God	533200 Portugui
Akira Kurosawa	153 269061 Action Adventure Drama	Takashi Shimura	Seven Samurai	229012 Japanes
Steven Spielberg	219 2.2E+08 Action Drama War	Tom Hanks	Saving Private Ryan	881236 English
Jonathan Demme	185 1.3E+08 Crime Drama Horror Thriller	Anthony Hopkins	The Silence of the Lambs	887467 English
David Fincher	216 1E+08 Crime Drama Mystery Thriller	Morgan Freeman	Se7en	1023511 English
Christopher Nolan	712 1.9E+08 Adventure Drama Sci-Fi	Matthew McConaughey	Interstellar	928227 English
Bryan Singer	162 2.3E+07 Crime Drama Mystery Thriller	Kevin Spacey	The Usual Suspects	740918 English
Tony Kaye	162 6712241 Crime Drama	Ethan Suplee	American History X	782437 English
Charles Chaplin	120 163245 Comedy Drama Family	Paulette Goddard	Modern Times	143086 English
Hayao Miyazaki	246 1E+07 Adventure Animation Family Fantasy	Bunta Sugawara	Spirited Away	417971 Japanes
Roger Allers	186 4.2E+08 Adventure Animation Drama Family Musical	Matthew Broderick	The Lion King	644348 English
Steven Spielberg	234 2.4E+08 Action Adventure	Harrison Ford	Raiders of the Lost Ark	661017 English
Christopher Nolan	813 4.5E+08 Action Thriller	Tom Hardy	The Dark Knight Rises	1144337 English
Robert Zemeckis	198 2.1E+08 Adventure Comedy Sci-Fi	Lea Thompson	Back to the Future	732212 English
James Cameron	210 2E+08 Action Sci-Fi	Joe Morton	Terminator 2: Judgment Day	744891 English
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• For the cleaning the data we use filter feature in the excel as the raw data contains like null (or) black values and unwanted columns like facebook likes.. ect in them and those columns and rows are not useful for analysis.

MOVIES WITH HIGHEST PROFIT

movie_title ~	num_voted_users 🗸 la	anguage ~	budget 🚜	title_year =	imdb_score =	PROFIT →
Avatar	886204 E	nglish	237000000	2009	7.9	523505847
Jurassic World	418214 E	nglish	150000000	2015	7	502177271
Titanic	793059 E	nglish	200000000	1997	7.7	458672302
Star Wars: Episode IV - A New Hope	911097 E	nglish	11000000	1977	8.7	449935665
E.T. the Extra-Terrestrial	281842 E	nglish	10500000	1982	7.9	424449459
The Avengers	995415 E	nglish	220000000	2012	8.1	403279547
The Avengers	995415 E	nglish	220000000	2012	8.1	403279547
The Lion King	644348 E	nglish	45000000	1994	8.5	377783777
Star Wars: Episode I - The Phantom Menace	534658 E	nglish	115000000	1999	6.5	359544677
The Dark Knight	1676169 E	nglish	185000000	2008	9	348316061
The Hunger Games	701607 E	nglish	78000000	2012	7.3	329999255
Deadpool	479047 E	nglish	58000000	2016	8.1	305024263
The Hunger Games: Catching Fire	498397 E	nglish	130000000	2013	7.6	294645577
Jurassic Park	613473 E	nglish	63000000	1993	8.1	293784000
Despicable Me 2	286877 E	nglish	76000000	2013	7.5	292049635
American Sniper	325264 E	nglish	58800000	2014	7.3	291323553
Finding Nemo	692482 E	nglish	94000000	2003	8.2	286838870
Shrek 2	314630 E	nglish	150000000	2004	7.2	286471036
The Lord of the Rings: The Return of the King	1215718 E	nglish	94000000	2003	8.9	283019252
Star Wars: Episode VI - Return of the Jedi	681857 E	nglish	32500000	1983	8.4	276625409
Forrest Gump	1251222 E	nglish	55000000	1994	8.8	274691196
Star Wars: Episode V - The Empire Strikes Back	837759 E	nglish	18000000	1980	8.8	272158751
Home Alone	311075 E	nglish	18000000	1990	7.5	267761243
Star Wars: Episode III - Revenge of the Sith	520104 E	nglish	113000000	2005	7.6	267262555
Spider-Man	544665 E	nglish	139000000	2002	7.3	264706375
Minions	142403 E	nglish	74000000	2015	6.4	262029560
The Sixth Sense	704766 E	nglish	40000000	1999	8.1	253501675
Jaws	412454 E	nglish	8000000	1975	8	252000000
Frozen	421658 E	nglish	150000000	2013	7.6	250736600

- For the finding the profit of the movies we consider the difference between the gross and budget.
- Then we got the profit of that particular movie and movies with highest profit are avatar, Jurassic world, Titanic and .. etc.

MOVIES WITH HIGHEST PROFIT







IMDb_Top_250_MOVIES	IMDB_SCORI =	RANK -
The Shawshank Redemption	9.3	1
The Godfather	9.2	2
The Dark Knight	9	3
The Godfather: Part II	9	4
Star Wars: Episode VII - The Force Awakens	7.1	5
The Lord of the Rings: The Return of the King	8.9	6
Pulp Fiction	8.9	7
Schindler's List	8.9	8
The Good, the Bad and the Ugly	8.9	9
12 Angry Men	8.9	10
Forrest Gump	8.8	11
Star Wars: Episode V - The Empire Strikes Back	8.8	12
The Lord of the Rings: The Fellowship of the Ring	8.8	13
Inception	8.8	14
Fight Club	8.8	15
Star Wars: Episode IV - A New Hope	8.7	16
The Lord of the Rings: The Two Towers	8.7	17
The Matrix	8.7	18
One Flew Over the Cuckoo's Nest	8.7	19
Goodfellas	8.7	20
City of God	8.7	21
Seven Samurai	8.7	22
Saving Private Ryan	8.6	23
The Silence of the Lambs	8.6	24
Se7en	8.6	25
Interstellar	8.6	26
The Usual Suspects	8.6	27
American History X	8.6	28
Casablanca	8.6	29
Modern Times	8.6	30

- For the finding the imdb top 250 films I have used the filter feature in excel where I have sorted the films based on imdb_score and conditions like num_voted_users are above 25000 and ranking them by imdb_score.
- The movies with higgest imdb_score are the Shawshank redemption , the godfather.. etc.

IMDB TOP FOREIGN FILMS



- For finding the top foreign language films we have used to filter feature in the excel.
- Where the condition for filtering is imdb_score and language of film which is language's which are other than english

TOP 10 DIRECTOR'S BY IMDB SCORE

Top 10 Director's	¥	Mean of imdb_score	Ψ.
John Blanchard		9.5	
Cary Bell		8.7	
Mitchell Altieri		8.7	
Sadyk Sher-Niyaz		8.7	
Charles Chaplin		8.6	
Mike Mayhall		8.6	
Damien Chazelle		8.5	
Majid Majidi		8.5	
Raja Menon		8.5	
Ron Fricke		8.5	

- For finding the top 10 director by mean of imdb_score where I have used the pivot table feature in the excel.
- Where I have calculated the mean of imdb_score for their movies and sorted them in terms of the imdb_score if the two director's have score I have arranged them by alphabetical order.

POPULAR GENRE'S

GENRE ▼	Count of Movies_Title 🕌
Drama	235
2.5	208
Comedy	
Comedy Drama	190
Comedy Drama Romance	187
Comedy Romance	158
Drama Romance	152
Crime Drama Thriller	101
Horror	70
Action Crime Drama Thriller	67
Action Crime Thriller	65
Drama Thriller	64
Crime Drama	62
Horror Thriller	56
Crime Drama Mystery Thriller	55
Action Adventure Sci-Fi	51
Comedy Crime	51
Documentary	50
Action Adventure Thriller	46
Drama Mystery Thriller	37
Action Adventure Sci-Fi Thriller	35
Biography Drama	35
Horror Mystery Thriller	35
Action Adventure Fantasy	30
Action Comedy Crime	30

- For finding the popular genres I have used the pivot table feature in excel where I have counted the no . of movies which are under that particular genre.
- After that I have sorted them by higghest movies under that particular genre.

CHART DATASET FOR MERYL STREEP

director_name	um_critic_for_rev	genres ~	actor_1_name	₹ movie_title	num_voted_user	num_user_for_review =	languag 🐣	country
Nancy Meyers	187	Comedy Drama Romance	Meryl Streep	It's Complicated	69860	214	English	USA
Curtis Hanson	42	Action Adventure Crime Thriller	Meryl Streep	The River Wild	32544	69	English	USA
Nora Ephron	252	Biography Drama Romance	Meryl Streep	Julie & Julia	79264	277	English	USA
David Frankel	208	Comedy Drama Romance	Meryl Streep	The Devil Wears Prada	286178	631	English	USA
Robert Redford	227	Drama Thriller War	Meryl Streep	Lions for Lambs	41170	298	English	USA
Sydney Pollack	66	Biography Drama Romance	Meryl Streep	Out of Africa	52339	200	English	USA
David Frankel	234	Comedy Drama Romance	Meryl Streep	Hope Springs	34258	178	English	USA
Carl Franklin	64	Drama	Meryl Streep	One True Thing	9283	112	English	USA
Stephen Frears	87	Biography Comedy Drama Music Romance	Meryl Streep	Florence Foster Jenkins	2167	32	English	UK
Stephen Daldry	174	Drama Romance	Meryl Streep	The Hours	102123	660	English	USA
Phyllida Lloyd	331	Biography Drama History	Meryl Streep	The Iron Lady	82327	350	English	UK
Robert Altman	211	Comedy Drama Music	Meryl Streep	A Prairie Home Companion	19655	280	English	USA
Fred Zinnemann	38	Drama	Meryl Streep	Julia	6454	44	English	USA

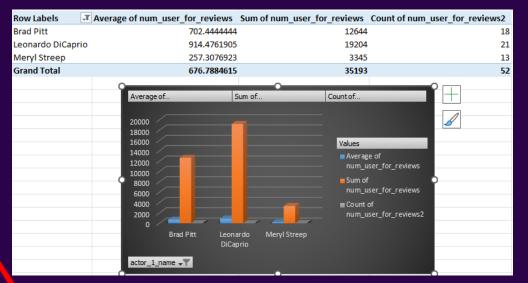
CHART DATASET FOR LEONARDO DICAPRIO

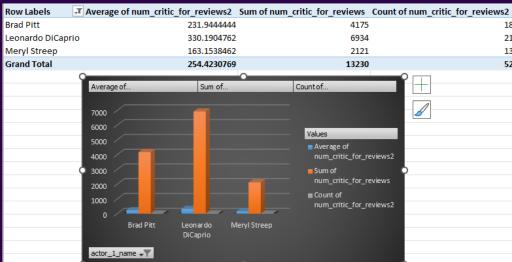
				_					
director_name	um_critic_for_rev ~	genres	actor_1_name	∡ movie_	title	num_voted_user =	num_user_for_review Tanguag T	country	-
James Cameron	315 Drama Romance		Leonardo DiCaprio	Titanic		793059	2528 English	USA	
Baz Luhrmann	490 Drama Romance		Leonardo DiCaprio	The Great Gatsby		362912	753 English	Australia	
Christopher Nolan	642 Action Adventure	Sci-Fi Thriller	Leonardo DiCaprio	Inception		1468200	2803 English	USA	
Alejandro G. Iñárritu	556 Adventure Drama	Thriller Western	Leonardo DiCaprio	The Revenant		406020	1188 English	USA	
Martin Scorsese	267 Biography Drama		Leonardo DiCaprio	The Aviator		264318	799 English	USA	
Quentin Tarantino	765 Drama Western		Leonardo DiCaprio	Django Unchained		955174	1193 English	USA	
Edward Zwick	166 Adventure Drama	Thriller	Leonardo DiCaprio	Blood Diamond		400292	657 English	Germany	
Martin Scorsese	606 Biography Comedy	y Crime Drama	Leonardo DiCaprio	The Wolf of Wall Stre	eet	780588	1138 English	USA	
Martin Scorsese	233 Crime Drama		Leonardo DiCaprio	Gangs of New York		314033	1166 English	USA	
Martin Scorsese	352 Crime Drama Thri	ller	Leonardo DiCaprio	The Departed		873649	2054 English	USA	
Martin Scorsese	490 Mystery Thriller		Leonardo DiCaprio	Shutter Island		786092	964 English	USA	
Ridley Scott	238 Action Drama Thri	iller	Leonardo DiCaprio	Body of Lies		174248	263 English	USA	
Steven Spielberg	194 Biography Crime E	Drama	Leonardo DiCaprio	Catch Me If You Can		525801	667 English	USA	
Danny Boyle	118 Adventure Drama	Thriller	Leonardo DiCaprio	The Beach		176169	548 English	USA	
Sam Mendes	323 Drama Romance		Leonardo DiCaprio	Revolutionary Road		152591	414 English	USA	
Randall Wallace	83 Action Adventure		Leonardo DiCaprio	The Man in the Iron I	Mask	125219	244 English	USA	
Clint Eastwood	392 Biography Crime E	Drama	Leonardo DiCaprio	J. Edgar		102728	279 English	USA	
Sam Raimi	63 Action Thriller We	estern	Leonardo DiCaprio	The Quick and the De	ead	69197	216 English	Japan	
Jerry Zaks	45 Drama		Leonardo DiCaprio	Marvin's Room		20163	71 English	USA	
Baz Luhrmann	106 Drama Romance		Leonardo DiCaprio	Romeo + Juliet		167750	506 English	USA	
Baz Luhrmann	490 Drama Romance		Leonardo DiCaprio	The Great Gatsby		362933	753 English	Australia	

CHART DATASET FOR BRAD PITT

director_name *	um_critic_for_rev <u> </u>	rres 🔻	actor_1_name	₹ movie_title	num_voted_user =	num_user_for_review 🗂 languag	country -
David Fincher	362 Drama Fantasy Roman	ce Brad	Pitt	The Curious Case of Benjamin Butto	n 459346	822 English	USA
Wolfgang Petersen	220 Adventure	Brad	Pitt	Troy	381672	1694 English	USA
Steven Soderbergh	198 Crime Thriller	Brad	Pitt	Ocean's Twelve	284852	627 English	USA
Doug Liman	233 Action Comedy Crime F	Romance Thriller Brad	Pitt	Mr. & Mrs. Smith	348861	798 English	USA
Tony Scott	142 Action Crime Thriller	Brad	Pitt	Spy Game	121259	361 English	Germany
Steven Soderbergh	186 Crime Thriller	Brad	Pitt	Ocean's Eleven	402645	845 English	USA
David Ayer	406 Action Drama War	Brad	Pitt	Fury	303185	701 English	USA
Jean-Jacques Annaud	76 Adventure Biography D	rama History War Brad	Pitt	Seven Years in Tibet	96385	119 English	USA
David Fincher	315 Drama	Brad	Pitt	Fight Club	1347461	2968 English	USA
Patrick Gilmore	98 Adventure Animation C	omedy Drama Family F Brad	Pitt	Sinbad: Legend of the Seven Seas	36144	91 English	USA
Neil Jordan	120 Drama Fantasy Horror	Brad	Pitt	Interview with the Vampire: The Var	np 239752	406 English	USA
Terrence Malick	584 Drama Fantasy	Brad	Pitt	The Tree of Life	136367	975 English	USA
Andrew Dominik	273 Biography Crime Drama	a History Western Brad	Pitt	The Assassination of Jesse James b	yt 136104	415 English	USA
Alejandro G. Iñárritu	285 Drama	Brad	Pitt	Babel	243799	908 English	France
Angelina Jolie Pitt	131 Drama Romance	Brad	Pitt	By the Sea	7976	61 English	USA
Andrew Dominik	414 Crime Thriller	Brad	Pitt	Killing Them Softly	111625	369 English	USA
Tony Scott	122 Action Crime Drama Ro	omance Thriller Brad	Pitt	True Romance	163492	460 English	USA
Tom DiCillo	10 Comedy Music Romano	e Brad	Pitt	Johnny Suede	3013	24 English	Switzerland

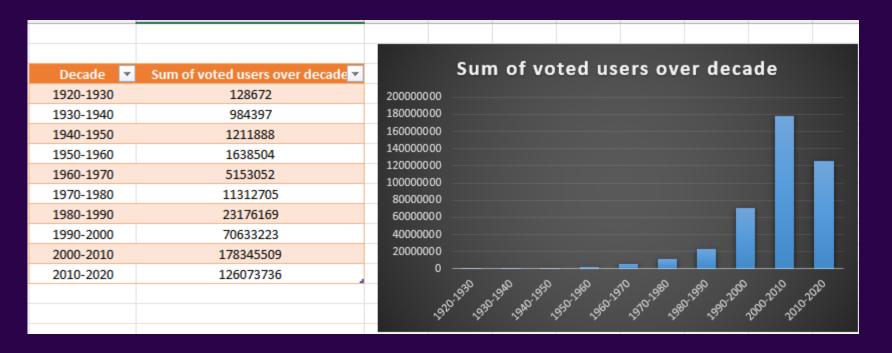
CHART





- For finding the actor who's has highest mean of num_user_for_reviews and num_critic_for_reviews we have used the pivot table in excel.
- Where we have used three actor's name and found the mean of num_user_for_reviews and num_critic_for_reviews for those particular actor's.
- By analyzing the data we got know The critic and user favorite actor is **LEONARDO DICAPRIO.**

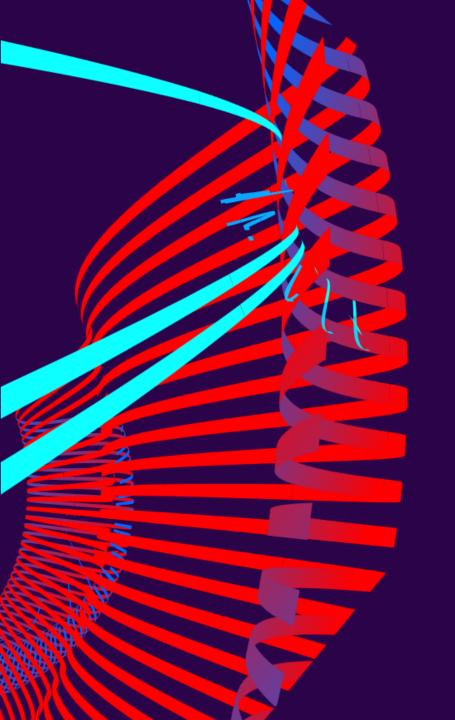
CHART



- For finding the sum of user voted over the decade we have used the pivot table feature in the excel where we have calculated the sum of voted users per year and then calculated in terms of decade.
- After that visualized the data in charts.

RESULT

- This project really helped me to understand the in-depth knowledge of the Microsoft excel.
- Where I have learned to use the pivot table feature efficiently and smartly to solve problems.
- Another excellent filter of the excel is filter where we can sort the data according to the requirements and needs.
- Data visualization in excel is also quite easy and this project has helped to improve my logical and data analytical skill.



THANK YOU