

Tmdb-movies data analysis report

- **The dependent variable is profit which is the difference between revenue and budget**
- **The three independent variables are year , genres and runtime**
- **Before I analyze the tmdb-movies data, I asked myself some questions according to the csv data file**

First : detecting the maximum and minimum profit with its data

Second : detecting the maximum and minimum budget with its data

Third : detecting the maximum and minimum revenue with its data

Fourth : year of release and profit

Fifth : the relationship between genres and profit

Sixth : runtime calculations and insights

Before answering these questions we have to clean our data

Then after cleaning data we can analyze, get insights and answering our questions

So we found that :

- 1- The movie that get high profit is Avatar**
- 2- The movie that get minimum profit is The Warrior's Way where it loses**
- 3- The movie with maximum budget is The Warrior's Way which is weird as it has the maximum loss**
- 4- The movie with minimum budget is Lost and Found**
- 5- The movie with maximum revenue is Avatar which is good insight**
- 6- The movie with minimum revenue is Shattered Glass**
- 7- The maximum year of profit is 2015**
- 8- The profit increases year by year which is good indication for the success**
- 9- The genres that get maximum profit is comedy , drama and comedy|romance**
- 10- The genres that get minimum profit is action | war | science fiction and fantasy | action | comedy | crime**
- 11- Most movies runtime is about 100 minutes**
- 12- runtime with maximum profit is 130 minutes**

Thanks for helping me developing my skills UDACITY

Abdelrahman Mahmoud Hassan Shaheen