

## **OBSERVATIONS**

### 1. Dataset

- Rank : of the movie based on rating, MetaScore of the movie
- Name : of the movie
- Runtime : of the movie
- Genre : of the movie, could be multiple hence the first genre is selected
- Rating : based on rating given by the audience
- Votes : no. of audience giving the rating
- MetaScore : ratings given by the critics
- Revenue : Gross collection by a movie in US ( in mil )

Correlation between different data points :

- Rating : is positively correlated : MetaScore, Votes, Runtime , Revenue  
is negatively correlated : Rank
- Votes : is positively correlated : Runtime, Revenue , Rating, MetaScore  
is negatively correlated : Rank
- MetaScore: is positively correlated : Rating , Votes, Runtime  
is negatively correlated : Rank
- Runtime : is positively correlated : Votes, Revenue, Rating, MetaScore  
is negatively correlated : Rank
- Revenue : is positively correlated : Votes, Runtime , Rating  
is negatively correlated : Rank
- Rank : is negatively correlated : Rating , Votes, MetaScore, Runtime

### 2. Most Popular Genre

- a. Genre vs Revenue: Action is the most popular genre followed by Animation and Comedy while Horror is the least popular.
- b. Genre vs Rating: Action Movies are the most popular movies followed by Comedy and Biography while Adventure is the least popular.
- c. Genre vs MetaScore: Action Movies are the most popular movies followed by Comedy and Biography while Adventure is the least popular.

From the above three observations it is evident that people in US prefer Action movies followed by Comedy while Adventure movies is least rated while Horror movies make the least money.

### 3. Rating and MetaScore

There is some noisy data, that is, some movies are highly rated by the critics but poorly rated by the audience or vice-versa, however Rating and MetaScore are directly proportional as observed in the graph.

### 4. Rating and Voting

Rating and Voting shows the same observations as Rating and MetaScore.

5. Runtime vs Rating (size= Voting ) & Runtime vs MetaScore (size= Voting)

From the above two graphs, we observe that the avg rating for a movie is between 6-8 while avg meta rating for the movie is 50-70.

Majority of the movies have a n avg runtime between 100 – 140 mins

Also, the most popular genres are Action, Comedy, Biography

6. Revenue vs Rating (size = Votes)

Avg revenue of a movie with the avg rating of 6-8 = 250 mil (US Market).However, a lot of movies have 0 revenue due to direct OTT release.

Also, more the no. of votes more increase in the revenue.