**IMDB Movie Analysis**

**Project Description**

The IMDB Movie Analysis project aims to analyze a dataset of movies from the Internet Movie Database (IMDB) to gain valuable insights into various aspects of the film industry. The analysis will involve exploring key attributes such as movie ratings, genres, budgets, and more to understand trends and patterns within the dataset. By leveraging data visualization and statistical techniques, this project will provide valuable information for movie genres, duration, directors, Budget.

**Approach**

For this project, first we’ll get understanding of the given data. Then We’ll

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**Tech-Stack Used**

* I have used Microsoft Excel (2021) for data analysis.

**Insights**

* Most common genres of movies is Drama, Action, Thriller, comedy.
* The average duration of movies is 109 minutes and there is upward trendline between IMDB score and movie duration.
* Most common movies language is english, french and spanish and languages who have high average IMDB score is Telugu and Persian.
* I have identify the directors with the highest scores and there are 186 directors who are in top 10% of total directors and have higher average IMDB score compared to mean of all director’s IMDB score.
* I have identified movies with highest profit margin and there is positive correlation between movie budgets and gross earnings and movies with highest profit margin is Avatar.

**Result**

In this Project of IMDB Movies Analytsis, I have gain a vast knowledge of statistics and excel functions. Through this I learn how to apply statistics in real world problems and how to visualise the insights By enhancing my portfolio, this project will enable me to take advantage of intriguing opportunities in the future.

**A.** **Movie Genre Analysis:** Analyze the distribution of movie genres and their impact on the IMDB score.

**Task:** Determine the most common genres of movies in the dataset. Then, for each genre, calculate descriptive statistics (mean, median, mode, range, variance, standard deviation) of the IMDB scores.



**B. Movie Duration Analysis:**Analyze the distribution of movie durations and its impact on the IMDB score.

**Task:** Analyze the distribution of movie durations and identify the relationship between movie duration and IMDB score.



**C. Language Analysis:**Situation: Examine the distribution of movies based on their language.

**Task:** Determine the most common languages used in movies and analyze their impact on the IMDB score using descriptive statistics.



**D. Director Analysis:**Influence of directors on movie ratings.

**Task:** Identify the top directors based on their average IMDB score and analyze their contribution to the success of movies using percentile calculations.

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**E. Budget Analysis:** Explore the relationship between movie budgets and their financial success.

**Task:** Analyze the correlation between movie budgets and gross earnings, and identify the movies with the highest profit margin.



