**MOVIE TREND AND REVENUE ANALYSIS**

America boasts the oldest film industry and produces the largest revenue when compared to any other country. The American film industry produced $43.4 billion in income a year ago, expanding in every one of the previous five years at an annualized pace of only 2.2%, as indicated by a report by the exploration firm IBISWorld. Through 2022, industry revenue will increase at an annualized rate of 2.0% to $47.9 billion, even though domestic box office is expected to saturate at that time frame, growing at a lackluster annualized rate of 1.1%. Such is the revenue capacity of the film industry and the attention it is garnering from its audience.

The datasets are collected from DASL and Kaggle. I am planning to perform T-Test, non-parametric T-tests, multiple linear regression and ANOVA to answer the following questions:

* What are the factors which influences revenue generation?
* Does the Genre correlate with the given Scoring?
* Can we see a hype of specific genre over the past years?
* Whether there is a significant difference in revenue over a limited span of years?
* How many movies have been produced by the directors?
* Is there any relation between the director and the imdb rating?

Dataset links: -

<https://www.kaggle.com/beyjin/movies-1990-to-2017>

<https://dasl.datadescription.com/datafile/movie-budgets/?_sfm_cases=100+59943&sf_paged=9>

<https://dasl.datadescription.com/datafile/movie-profits/?_sfm_cases=100+59943&sf_paged=10>

The dataset consists of around 180000 movies available for analysis. But I will be condensing the dataset to around 150 movies for analysis. I will be finding relations and combing datasets from these various sources to create a primary dataset fit for analysis. I am planning to use AIC and BIC to find out the best model to predict revenue generation with linear regression. I am planning to use ANOVA for genre analysis and will come up with methods thereon to explain other theories as well. I am planning to use T-tests to

This analysis might produce certain trends which might be critical to explain the evolution of the movie industry and the key factor for its survival over the years.