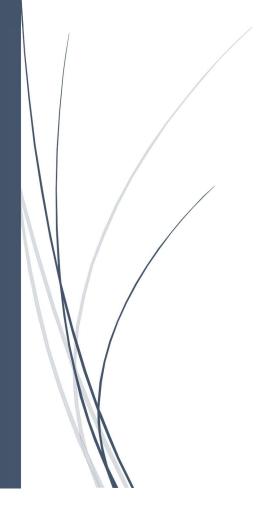
### 29/11/2023

# The Performance of Hollywood Movies

Python & Power BI Assignment



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DATA TECHNICIAN SKILLS BOOTCAMP – JUST IT

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## The performance of Hollywood Movies

#### Scenario

In this assignment, I will investigate into an ample analysis of the performance of Hollywood movies, examining various key factors that contribute to their performance. The dataset under analysis contains essential information such as movie titles, genres, studios, profitability, and ratings, covering the period from 2007 to 2011.

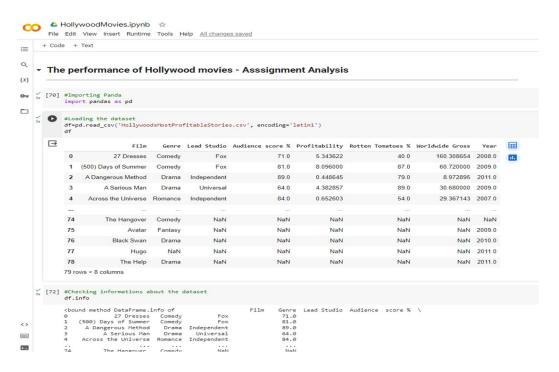
Through a careful exploration of these elements, we target to collect valuable insights into the dynamic landscape of the film industry during this specific timeframe.

#### **Python**

In the initial exploratory analysis phase, I choose to utilized Python programming language and a Jupyter notebook within the Google Colab environment, to create a script that efficiently loaded and processed the data. This step involved running exploratory commands, checking for missing values, and performing necessary data cleaning and transformation tasks, such as changing data types and renaming columns. The clean data was then exported for further visualization.

The process unfolded as follows:

- Creation of a New Script.
- Loading the Dataset.
- Execution of Exploratory Commands, such as checking information about the dataset, visualizing head, and bottom rows, checking column names, and examining data types.
- Data Cleaning and Transformation: checking and removing missing values, changing data types, renaming column name, and rounding two of the columns to two decimal places.
- Finally, exporting the Clean Data.



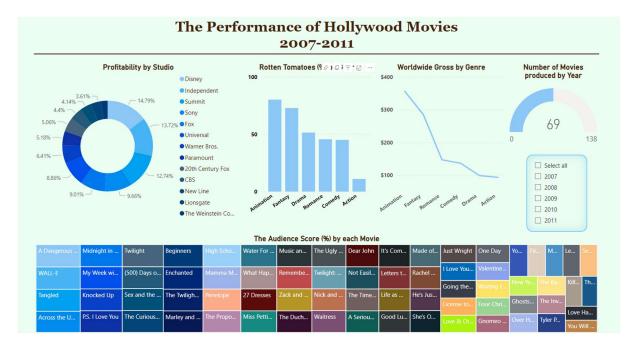
#### The link to this Python Script can be found here:

https://colab.research.google.com/drive/1R2oazAH-bTT2KubpMWwbQGTqYJ66kGde?usp=sharing

#### Power BI

The subsequent step involved the creation of a Power BI Dashboard, aligning with the client's preferences and requirements. The client expressed a desire to see key metrics, including the average Rotten Tomatoes ratings by genre, the number of movies produced per year, audience scores for each film, profitability per studio, and worldwide gross per genre. The challenge was not only to meet these specifications but also to present the information in a visually appealing and insightful manner.

Throughout the creation of the Power BI Dashboard, the incorporation of the company's brand colours – blue, green, and brown – added an extra layer of customization. The use of light and dark shades of these colours allowed for a harmonious and branded presentation.



The link to the Power PI Dashboard can be found here:

https://app.powerbi.com/links/\_3-nwvN-Sn?ctid=6efd0f20-57c8-4447-b53f-00d4992ca50b&pbi\_source=linkShare

#### **Final Considerations**

Completing this assignment has been a fascinating and challenging journey into the world of Hollywood movies' performance analysis.

Bellow some Analysis Points:

- Animation and Fantasy emerge as the top-performing genres, boasting the highest audience scores and subsequently achieving greater worldwide gross revenue. However, despite its high score, the drama genre does not fare as well in the worldwide gross chart.
- ➤ When examining movie profitability by studio, there is a range of around 12%. Disney leads the pack with a profitability of 14.79%, while The Weinstein Company is the last one with only 2.44% of the total profits.
- The trend in worldwide gross revenue reveals a shift over the years, transitioning from Comedy dominating in the earlier years to Animation taking the lead in the later years (specifically in 2010 and 2011).

In conclusion, this assignment not only honed my technical skills in data analysis and visualization but also emphasized the importance of presenting findings in a meaningful and engaging way.

This experience deepened my appreciation for the dynamic and multifaceted nature of the entertainment industry, showcasing how data analytics can unlock valuable insights. The culmination of this assignment is a comprehensive Power BI Dashboard that not only meets the client's expectations but also goes beyond to deliver a visually compelling narrative of Hollywood movie performance during the specified period.

#### Sources

- https://informationisbeautiful.net/data/
- https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-report-themes
- Data Bootcamp Just IT materials from Weeks 3 and 5