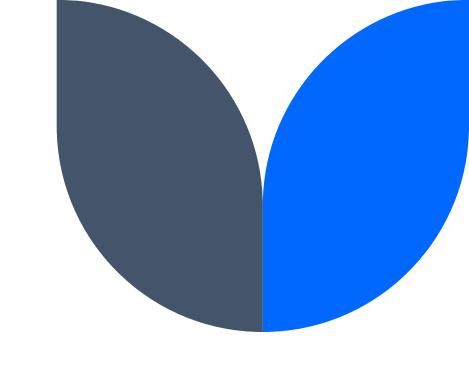
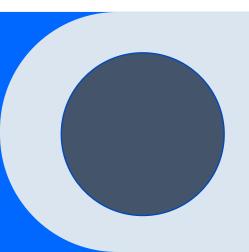
# IMDB Movie Analysis

Sanjana Kumari Yadav





### Agenda

- Movie Genre Analysis
- Movies Duration Analysis
- Language Analysis
- Director Analysis
- Budget Analysis



#### Introduction

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.

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.

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

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.

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.

#### **Movie Genre Analysis**

•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.

Hence the most
Common genres of
Movies is Drama.

Average	Median	Max	Min	Range	Mode	Var	Std
520.9048	392	1893	1	1892	59	258307.9	508.24

varrie	•	count	Ľ
Action		9	59
Adventu	ıre	7	80
antasy		5	05
Sci-Fi		4	95
Γhriller		11	15
Roman	се	8	59
Musical			96
Nester	n		59
amily		4	4:
Mystery	/	3	83
History		1	49
Comedy	/	14	60
Nester	n		59
Orama		18	93
Biograp	hy	2	39
Nar		1	52
Docume	ent		45
Sport		1	48
ilm-No	ir		1
Crime		7	09
Horror		3	92

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#### **Movie Duration Analysis**

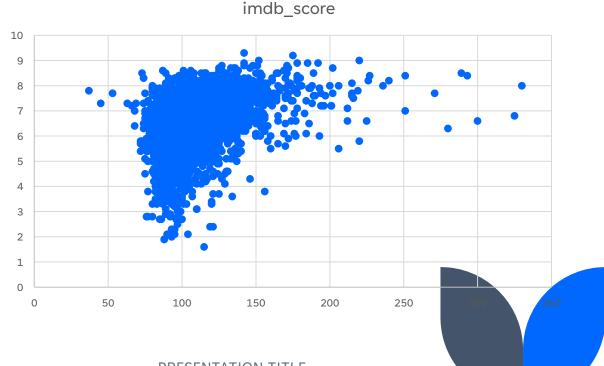
•Task: Analyze the distribution of movie durations and identify the relationship between movie duration and IMDB score.

Average: 110.258

Median: 106

**Standard Deviation:** 

26.6467



#### Language Analysis

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

The most common language is English.

Median: 15.4

Row Labels	Count of language	Average of imdb_score	StdDevp of imdb_score	Sum of imdb_score
Aboriginal	2	6.95	0.55	13.9
Arabic	1	7.2	0	7.2
Aramaic	1	7.1	0	7.1
Bosnian	1	4.3	0	4.3
Cantonese	7	7.342857143	0.324509048	51.4
Czech	1	7.4	0	7.4
Danish	3	7.9	0.43204938	23.7
Dari	2	7.5	0.1	15
Dutch	3	7.566666667	0.329983165	22.7
English	3598	6.427042802	1.050392173	23124.5
Filipino	1	6.7	0	6.7
French	34	7.355882353	0.51173935	250.1
German	10	7.77	0.67535176	77.7
Hebrew	1	8	0	8
Hindi	5	7.22	0.716658915	36.1
Hungarian	1	7.1	0	7.1
Indonesian	2	7.9	0.3	15.8
Italian	7	7.185714286	1.069617517	50.3
Japanese	10	7.66	0.939361485	76.6
Kazakh	1	6	0	6
Korean	5	7.7	0.509901951	38.5
Mandarin	15	7.08	0.745832868	106.2
Maya	1	7.8	0	7.8

#### **Director Analysis**

•Task: Identify the top directors based on their average IMDB score and analyze their contribution to the success of movies

using percentile calculations.

Percentile: 8.61

Name	*	score	<b>-</b> 1
Akira Kurosawa			8.7
Cedric Nicolas-Tr	οу		8.6
Alison Maclean			8.5
Damian Nieman			8.5
Maggie Greenwa	ld		7.3
Audrey Wells			8.4
Ron Clements			7.4
Rick Bieber			5.7
Tomas Alfredson			6.2
Seth MacFarlane			6.5

#### **Budget Analysis**

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

The Avengers

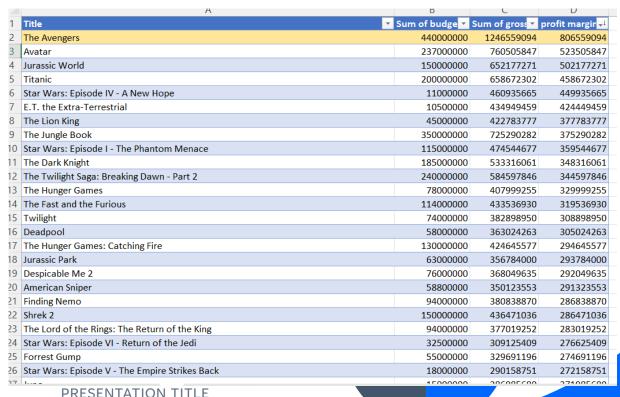
Highest profit margin:

806559094

**Correlation: 0.124941666** 

For correlation we use:

=CORREL(B4:B3659,C4:C365)



## Thank you

Here is the link of the sheet:

https://drive.google.com/file/d/1bxS2q n2StMzCiwsRNO4XsIlKyP1Ko9g/view?usp=drive\_link