

task-1

June 28, 2024

```
[1]: from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

```
[2]: import pandas as pd
import numpy as nm
from sklearn.model_selection import train_test_split as ttp
from sklearn.metrics import classification_report
from sklearn.linear_model import LinearRegression
LR= LinearRegression()
import re
import string
import matplotlib.pyplot as plt
```

```
[3]: df = pd.read_csv("/content/drive/MyDrive/imdb dataset/imdb_kaggle.csv")
```

```
[5]: df.head(5)
```

	rank	year	duration	age_limit	rating	numberof_ratings	Metascore	\
0	1	1994	2h 22m	15	9.3	(2.9M)	82.0	
1	2	1972	2h 55m	15	9.2	(2M)	100.0	
2	3	2008	2h 32m	12A	9.0	(2.9M)	84.0	
3	4	2003	3h 21m	12A	9.0	(2M)	94.0	
4	5	1993	3h 15m	15	9.0	(1.5M)	95.0	

	description	\
0	Over the course of several years, two convicts...	
1	The aging patriarch of an organized crime dyna...	
2	When the menace known as the Joker wreaks havo...	
3	Gandalf and Aragorn lead the World of Men agai...	
4	In German-occupied Poland during World War II,...	

	name
0	The Shawshank Redemption
1	The Godfather
2	The Dark Knight
3	The Lord of the Rings: The Return of the King

```
[6]: df.shape
```

```
[6]: (1000, 9)
```

```
[13]: df=df.drop(['description','Metascore'],axis=1)
```

```
[14]: df.head(5)
```

```
[14]:
```

	rank	year	duration	age_limit	rating	numberof_ratings \
0	1	1994	2h 22m	15	9.3	(2.9M)
1	2	1972	2h 55m	15	9.2	(2M)
2	3	2008	2h 32m	12A	9.0	(2.9M)
3	4	2003	3h 21m	12A	9.0	(2M)
4	5	1993	3h 15m	15	9.0	(1.5M)

	name
0	The Shawshank Redemption
1	The Godfather
2	The Dark Knight
3	The Lord of the Rings: The Return of the King
4	Schindler's List

```
[15]: df1=df.copy()
```

```
[16]: df1=df1.drop(['rank','duration','numberof_ratings'],axis=1)
```

```
[18]: df1=df1.dropna()
df1.shape
df1.head(25)
```

```
[18]:
```

	year	age_limit	rating	name
0	1994	15	9.3	The Shawshank Redemption
1	1972	15	9.2	The Godfather
2	2008	12A	9.0	The Dark Knight
3	2003	12A	9.0	The Lord of the Rings: The Return of the King
4	1993	15	9.0	Schindler's List
5	1957	U	9.0	12 Angry Men
6	1974	X	9.0	The Godfather Part II
7	2001	PG	8.9	The Lord of the Rings: The Fellowship of the ...
8	1994	18	8.9	Pulp Fiction
9	2023	12A	8.9	12th Fail
10	2010	12A	8.8	Inception
11	1999	15	8.8	Fight Club
12	1994	12	8.8	Forrest Gump
13	2002	12A	8.8	The Lord of the Rings: The Two Towers

14	1966	18	8.8	The Good, the Bad and the Ugly
15	2014	12A	8.7	Interstellar
16	1999	15	8.7	The Matrix
17	1990	18	8.7	GoodFellas
18	1975	15	8.7	One Flew Over the Cuckoo's Nest
19	1980	U	8.7	Star Wars: Episode V - The Empire Strikes Back
20	2021	Not Rated	8.7	Jai Bhim
21	2020	15	8.7	Soorarai Pottru
22	2022	12A	8.7	777 Charlie
23	2022	12A	8.7	Rocketry: The Nambi Effect
24	2024	12A	8.6	Dune: Part Two

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