

Dharma Productions Movie Analysis

June 2, 2022

```
[3]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
```

```
[4]: d_m_df = pd.read_csv('dharma.csv')
```

```
[5]: # checking what the dataset contain
d_m_df.head()
```

```
[5]:
```

	Title	Year	Director	Producer(s)	\
0	Dostana	1980	Raj Khosla	Yash Johar	
1	Duniya	1984	Ramesh Talwar	Yash Johar	
2	Muqaddar Ka Faisla	1987	Prakash Mehra	Yash Johar	
3	Agneepath	1990	Mukul S. Anand	Yash Johar	
4	Gumrah	1993	Mahesh Bhatt	Yash Johar	

	Cast	\
0	Amitabh Bachchan, Shatrughan Sinha, Zeenat Aman	
1	Dilip Kumar, Rishi Kapoor, Amrita Singh, Saira...	
2	Raaj Kumar, Raakhee, Raj Babbar, Meenakshi Ses...	
3	Amitabh Bachchan, Mithun Chakraborty, Danny De...	
4	Sridevi, Sanjay Dutt, Rahul Roy	

	Synopsis	Ref.
0	A police officer and a lawyer are best friends...	[18]
1	An honest man is wrongly imprisoned by crimina...	[19]
2	A Hindu priest is wrongly imprisoned for rape...	[20]
3	A common man seeks revenge from an unscrupulou...	[21]
4	An aspiring singer is wrongly accused of drug ...	[22]

```
[6]: d_m_df.tail()
```

```
[6]:
```

	Title	Year	Director	\
56	Dostana 2	2022	Collin D'Cunha	
57	Bedhadak	2022	Shashank Khaitan	
58	Rocky Aur Rani Ki Prem Kahani	2023	Karan Johar	

```

59 Anand Tiwari's untitled next 2023      Karan Johar
60                               Selfiee 2023      Raj Mehta

```

```

                                Producer(s) \
56      Karan JoharHiroo Johar,Apoorva Mehta
57      Karan JoharHiroo Yash Johar,Apoorva Mehta
58      Karan JoharHiroo Yash Johar,Apoorva Mehta
59      Karan JoharHiroo Yash Johar,Apoorva Mehta
60 Karan JoharPrithviraj SukumaranAruna Bhatia,Hi...

```

	Cast	Synopsis	Ref.
56	Janhvi Kapoor, Laksh Lalwani	TBA	[111]
57	Laksh Lalwani, Gurfateh Singh Pirzada, Shanaya...	TBA	[112][113]
58	Ranveer Singh, Alia Bhatt, Dharmendra, Shabana...	TBA	[114]
59	Vicky Kaushal, Tripti Dimri, Ammy Virk	TBA	[115]
60	Akshay Kumar, Emraan Hashmi, Nushrratt Bharucc...	TBA	[116][117]

```
[7]: d_m_df.columns
```

```
[7]: Index(['Title', 'Year', 'Director', 'Producer(s)', 'Cast', 'Synopsis', 'Ref.'],
      dtype='object')
```

```
[8]: d_m_df.info()
```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 61 entries, 0 to 60
Data columns (total 7 columns):
#   Column          Non-Null Count  Dtype
---  ---
0   Title           61 non-null    object
1   Year            61 non-null    int64
2   Director        61 non-null    object
3   Producer(s)     61 non-null    object
4   Cast            61 non-null    object
5   Synopsis        61 non-null    object
6   Ref.            61 non-null    object
dtypes: int64(1), object(6)
memory usage: 3.5+ KB

```

```
[9]: d_m_df.describe()
```

```

[9]:
      count      Year
count    61.000000
mean    2012.918033
std      10.028784
min     1980.000000
25%     2010.000000
50%     2016.000000

```

```
75%    2020.000000
max    2023.000000
```

```
[10]: #checking for duplicates
d_m_df.duplicated().sum()
```

```
[10]: 0
```

```
[11]: #checking for null values in the dataset
d_m_df.isnull().sum()
```

```
[11]: Title          0
Year              0
Director          0
Producer(s)       0
Cast              0
Synopsis          0
Ref.              0
dtype: int64
```

```
[12]: #looking at the columns after checking for null values on the dataset the
      ↳producers column needs renaming
d_m_df.rename(columns = {'Producer(s)': 'Producers'}, inplace = True)
```

```
[13]: # so from the look of the dataset it is okay but we still need to drop some
      ↳columns which are not useful e.g Ref column
d_m_df= d_m_df.drop('Ref.', axis = 1)
d_m_df.head()
```

```
[13]:
```

	Title	Year	Director	Producers \
0	Dostana	1980	Raj Khosla	Yash Johar
1	Duniya	1984	Ramesh Talwar	Yash Johar
2	Muqaddar Ka Faisla	1987	Prakash Mehra	Yash Johar
3	Agneepath	1990	Mukul S. Anand	Yash Johar
4	Gumrah	1993	Mahesh Bhatt	Yash Johar

	Cast \
0	Amitabh Bachchan, Shatrughan Sinha, Zeenat Aman
1	Dilip Kumar, Rishi Kapoor, Amrita Singh, Saira...
2	Raaj Kumar, Raakhee, Raj Babbar, Meenakshi Ses...
3	Amitabh Bachchan, Mithun Chakraborty, Danny De...
4	Sridevi, Sanjay Dutt, Rahul Roy

	Synopsis
0	A police officer and a lawyer are best friends...
1	An honest man is wrongly imprisoned by crimina...
2	A Hindu priest is wrongly imprisoned for rape...

3 A common man seeks revenge from an unscrupulou...
4 An aspiring singer is wrongly accused of drug ...

```
[14]: # time to check for the unique number of columns we have  
d_m_df.nunique()
```

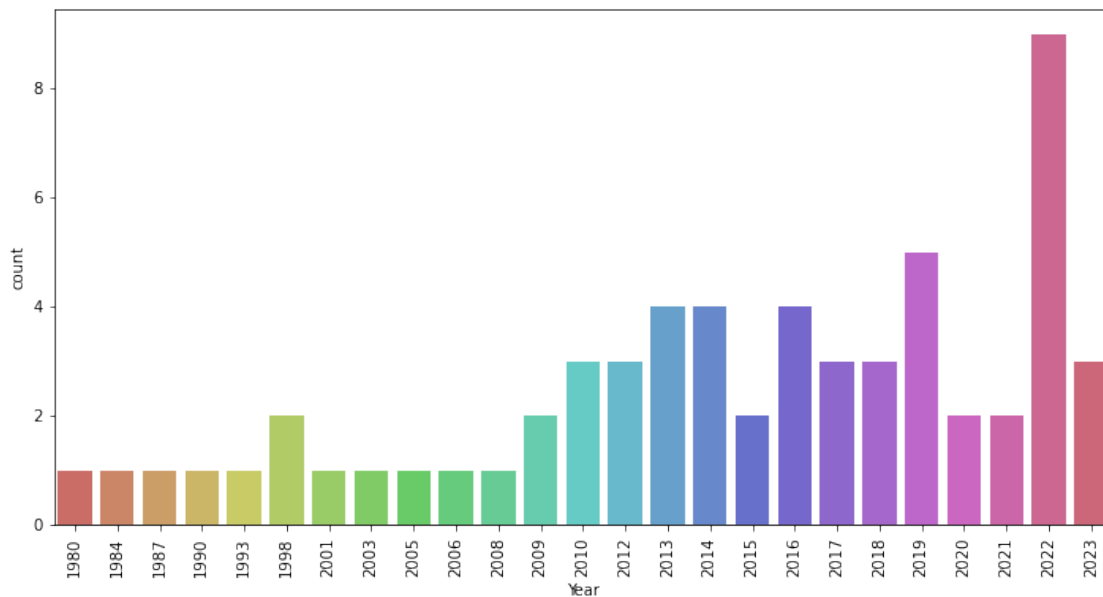
```
[14]: Title          59  
      Year          25  
      Director      35  
      Producers      32  
      Cast           60  
      Synopsis       50  
      dtype: int64
```

```
[15]: # so lets check the value count of the years  
d_m_df.Year.value_counts()
```

```
[15]: 2022      9  
      2019      5  
      2016      4  
      2014      4  
      2013      4  
      2010      3  
      2012      3  
      2018      3  
      2017      3  
      2023      3  
      2009      2  
      2015      2  
      1998      2  
      2020      2  
      2021      2  
      2008      1  
      1984      1  
      2006      1  
      2005      1  
      2003      1  
      2001      1  
      1993      1  
      1990      1  
      1987      1  
      1980      1  
      Name: Year, dtype: int64
```

```
[27]: #now lets do some visualisation by plotting graph  
plt.figure(figsize = (12,6))  
sns.countplot('Year', data = d_m_df, palette = 'hls')
```

```
plt.xticks(rotation = 90)
plt.show()
```



```
[19]: #so here i tried getting the value counts of unique directors
d_m_df.Director.value_counts().unique()
```

```
[19]: array([8, 5, 3, 2, 1], dtype=int64)
```

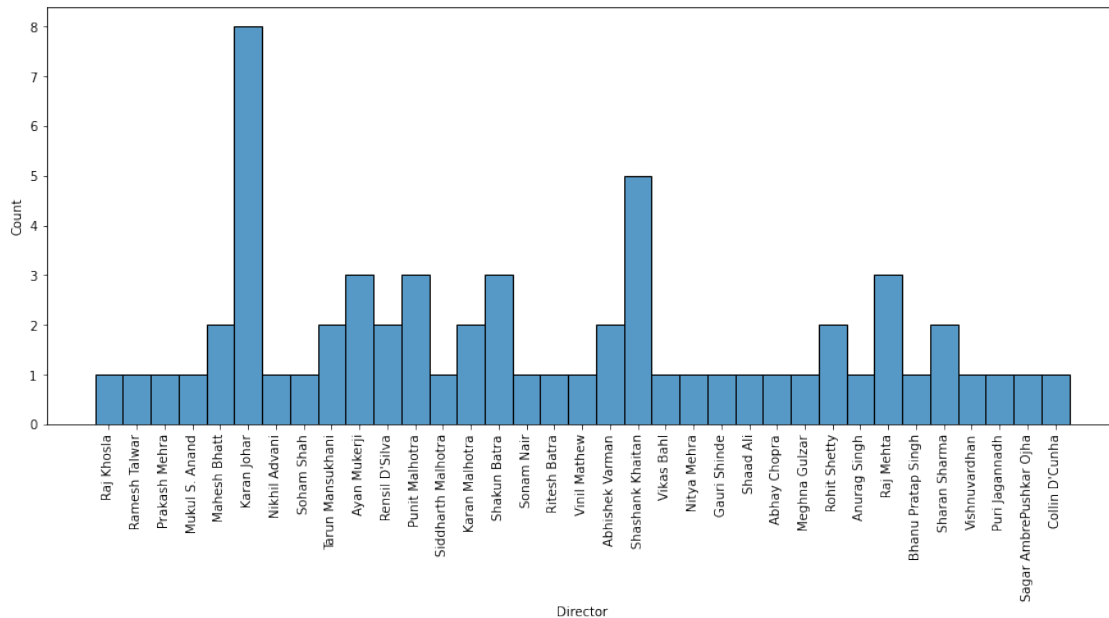
```
[20]: #lets just see the value counts of the directors normally
d_m_df.Director.value_counts()
```

```
[20]: Karan Johar                8
      Shashank Khaitan          5
      Punit Malhotra            3
      Raj Mehta                 3
      Ayan Mukerji              3
      Shakun Batra              3
      Mahesh Bhatt              2
      Abhishek Varman           2
      Sharan Sharma             2
      Tarun Mansukhani          2
      Rensil D'Silva            2
      Rohit Shetty              2
      Karan Malhotra            2
      Meghna Gulzar             1
      Anurag Singh              1
      Raj Khosla                1
```

Bhanu Pratap Singh	1
Shaad Ali	1
Vishnuvardhan	1
Puri Jagannadh	1
Sagar AmbrePushkar Ojha	1
Abhay Chopra	1
Vinil Mathew	1
Gauri Shinde	1
Nitya Mehra	1
Vikas Bahl	1
Ramesh Talwar	1
Ritesh Batra	1
Sonam Nair	1
Siddharth Malhotra	1
Soham Shah	1
Nikhil Advani	1
Mukul S. Anand	1
Prakash Mehra	1
Collin D'Cunha	1

Name: Director, dtype: int64

```
[24]: # so now lets do some visualisation of our directors
plt.figure(figsize = (15,6))
sns.histplot(d_m_df.Director, bins = 60)
plt.xticks(rotation = 90)
plt.show()
```



```
[28]: # now lets check our producers and their counts too
d_m_df.Producers.value_counts().unique()
```

```
[28]: array([11,  8,  3,  2,  1], dtype=int64)
```

```
[29]: d_m_df.Producers.value_counts()
```

```
[29]: Karan Johar,Hiroo Johar
      11
      Yash Johar
      8
      Karan JoharHiroo Yash Johar,Apoorva Mehta
      3
      Karan Johar,Hiroo Yash Johar,Apoorva Mehta
      3
      Karan Johar,Hiroo Johar,Apoorva Mehta
      3
      Karan Johar,Vikas Bahl,Vikramaditya Motwane,Anurag Kashyap
      2
      Karan Johar,Hiroo Johar, Apoorva Mehta
      2
      Karan Johar,Sajid Nadiadwala
      2
      Karan JoharHiroo Johar
      2
      Karan Johar,Hiroo Johar,Ronnie Screwvala
      2
      Hiroo Johar,Gauri Khan
      2
      Karan Johar,Hiroo Yash Johar,Apoorva Mehta,Shashank Khaitan
      1
      Karan Johar,Aruna Bhatia,Hiroo Yash Johar,Apoorva Mehta,Shashank Khaitan
      1
      Karan Johar,Hiroo Johar,Apoorva Mehta,Puri Jagannadh,Charmme Kaur
      1
      Karan Johar,Hiroo Johar,Apoorva Mehta,Shakun Batra
      1
      Karan JoharHiroo Johar,Apoorva Mehta
      1
      Karan Johar,Rohit Shetty,Aruna Bhatia
      1
      Karan Johar,Hiroo Johar,Apoorva Mehta,Shabbir Boxwala,Ajay Shah,Himanshu Gandhi
      1
      Karan Johar,Hiroo Johar,Apoorva Mehta,Zee Studios
      1
      Karan Johar,Hiroo Johar,Apoorva Mehta,Shashank Khaitan
      1
```

```

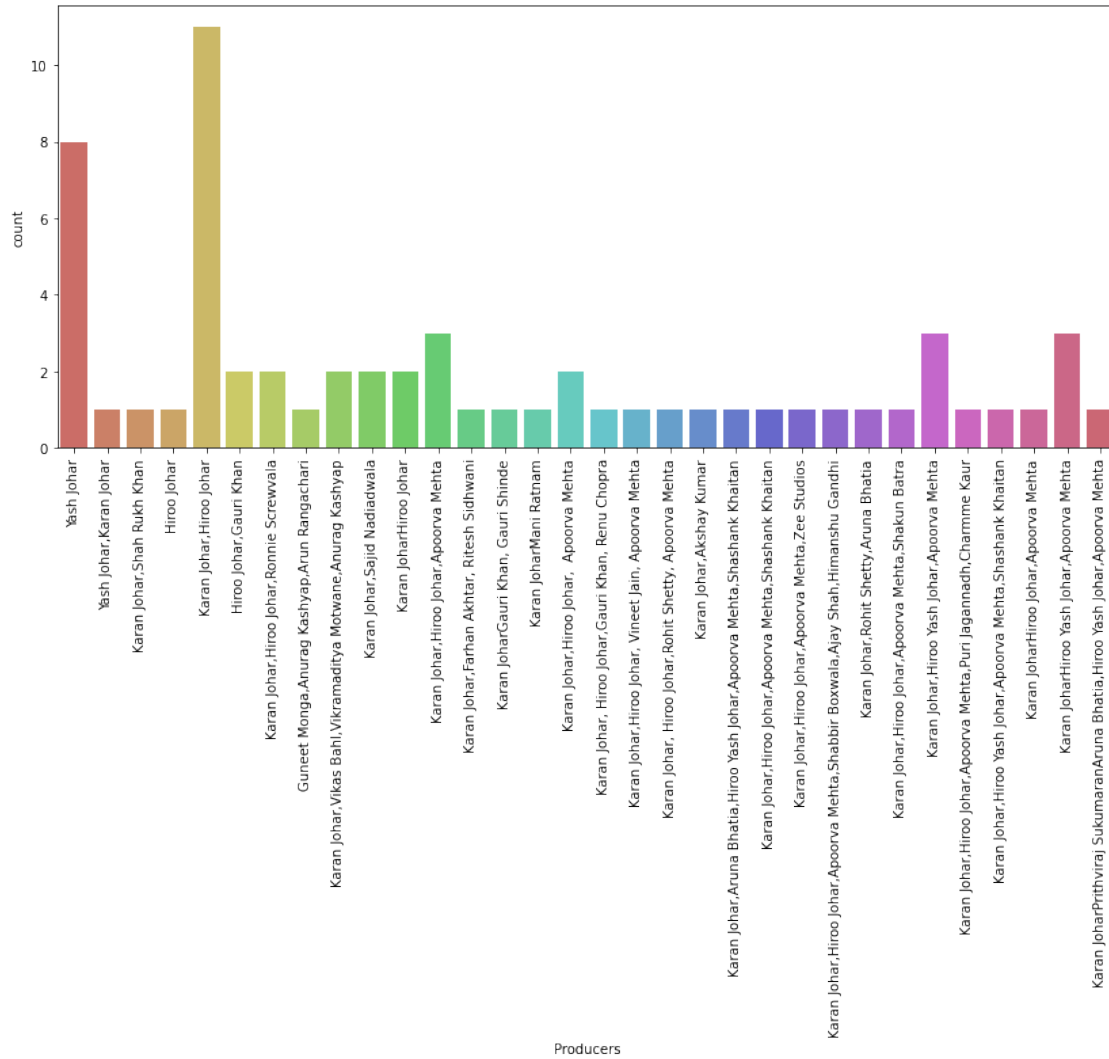
Karan Johar, Hiroo Johar,Gauri Khan, Renu Chopra
1
Karan Johar,Akshay Kumar
1
Karan Johar, Hiroo Johar,Rohit Shetty, Apoorva Mehta
1
Karan Johar,Hiroo Johar, Vineet Jain, Apoorva Mehta
1
Yash Johar,Karan Johar
1
Karan JoharMani Ratnam
1
Karan JoharGauri Khan, Gauri Shinde
1
Karan Johar,Farhan Akhtar, Ritesh Sidhwani
1
Guneet Monga,Anurag Kashyap,Arun Rangachari
1
Hiroo Johar
1
Karan Johar,Shah Rukh Khan
1
Karan JoharPrithviraj SukumaranAruna Bhatia,Hiroo Yash Johar,Apoorva Mehta
1
Name: Producers, dtype: int64

```

```

[32]: #let's do some Visualisation for the producers
plt.figure(figsize = (14,6))
sns.countplot('Producers', data = d_m_df, palette = 'hls')
plt.xticks(rotation = 90)
plt.show()

```

```
[1]: jupyter nbconvert --to webpdf --allow-chromium-download Dharma Productions Movie_
↪Analysis.ipynb
```

Input In [1]

```
jupyter nbconvert --to webpdf --allow-chromium-download Dharma Productions_
↪Movie Analysis.ipynb
```

SyntaxError: invalid syntax