

Project Notes

Dataset Analysed

TMDb Movie Data

Questions posed

1. What kinds of properties are associated with movies that have high revenues (Focus is on adjusted revenue)
2. Which genres are most popular in the last 5 years?

Description of work done to investigate the questions

1. Created columns for the number of cast, number of directors and number of genre classification per movie. Checked if each of these factors is related to the revenue made per movie. Also checked relationship of the budget, popularity etc on the revenue made from the movies
2. Split the genre column into 5 tables and appended them to achieve a single genre in the genres column. I then used a bar to check the most popular genre for the last 5 years using the mean popularity per genre per year

Data Wrangling performed

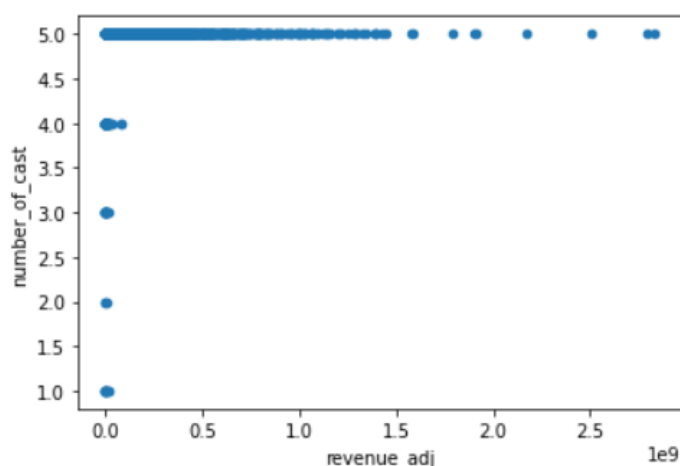
1. Removed duplicates
2. Dropped all rows that contained null values

Summary statistics and plots

For the first question, the number of cast seem to be the most important factor for revenue generated. The plot is showed below alongside other relationships with revenue investigated

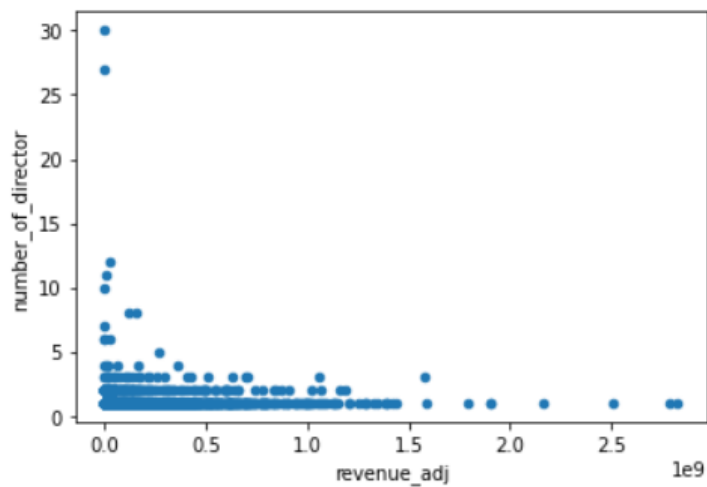
```
#checking if the number of cast influences the revenue of the movie
```

```
df_1.plot(x="revenue_adj", y="number_of_cast", kind="scatter");
```



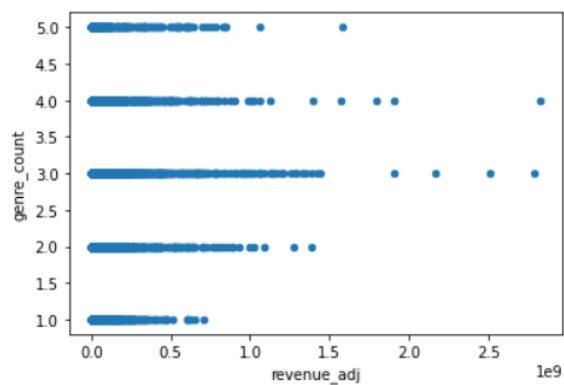
```
: #checking if the number of directors influences the the revenue of the movie
```

```
df_1.plot(x="revenue_adj", y="number_of_director", kind="scatter");
```



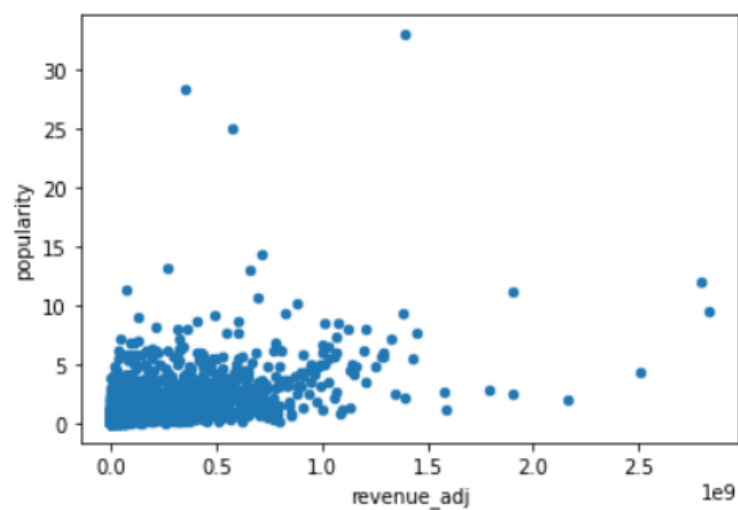
```
#checking if the number of genres the movie is classified under influences the revenue of the movie
```

```
df_1.plot(x="revenue_adj", y="genre_count", kind="scatter");
```



```
In [92]: #checking if the popularity of a movie is associated with the
```

```
df_1.plot(x="revenue_adj", y="popularity", kind="scatter");
```



For the second question, the summary of the outcome and the supporting plots is below

In 2015 - Western Genre was most popular

In 2014 - War and Science Fiction were the most popular

In 2013 - Fantasy was the most popular

In 2012 - Western was the most popular

In 2011 - Crime genre was the most popular

