

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
df=pd.read_csv("Netflix (2).csv")
```

```
df
```

	Title	Genre \
0	Lets Fight Ghost	Crime, Drama, Fantasy, Horror, Romance
1	HOW TO BUILD A GIRL	Comedy
2	Centigrade	Drama, Thriller
3	ANNE+	Drama
4	Moxie	Animation, Short, Drama
...
15478	NaN	NaN
15479	NaN	NaN
15480	NaN	NaN
15481	NaN	NaN
15482	NaN	NaN

	Languages	Series or Movie	Hidden Gem Score \
0	Swedish, Spanish	Series	4.3
1	English	Movie	7.0
2	English	Movie	6.4
3	Turkish	Series	7.7
4	English	Movie	8.1
...
15478	NaN	NaN	NaN
15479	NaN	NaN	NaN
15480	NaN	NaN	NaN
15481	NaN	NaN	NaN
15482	NaN	NaN	NaN

	Country Availability	Runtime
0	Thailand	< 30 minutes
1	Canada	1-2 hour
2	Canada	1-2 hour
3	Belgium,Netherlands	< 30 minutes
4	Lithuania,Poland,France,Iceland,Italy,Spain,Gr...	1-2 hour
...
15478	NaN	NaN
15479	NaN	NaN

15480		NaN	NaN
15481		NaN	NaN
15482		NaN	NaN
	Director	Writer	\
0	Tomas Alfredson	John Ajvide Lindqvist	
1	Coky Giedroyc	Caitlin Moran	
2	Brendan Walsh	Brendan Walsh, Daley Nixon	
3	NaN	NaN	
4	Stephen Irwin	NaN	
...	
15478	NaN	NaN	
15479	NaN	NaN	
15480	NaN	NaN	
15481	NaN	NaN	
15482	NaN	NaN	
	Actors View		
Rating	\		
0	Kåre Hedebrant, Per Ragnar, Lina Leandersson, ...		R
1	Paddy Considine, Cleo, Beanie Feldstein, Dónal...		R
2	Genesis Rodriguez, Vincent Piazza		Unrated
3	Vahide Perçin, Gonca Vuslateri, Cansu Dere, Be...		NaN
4	Ragga Gudrun		NaN
...
15478		NaN	NaN
15479		NaN	NaN
15480		NaN	NaN
15481		NaN	NaN
15482		NaN	NaN
	IMDb Score	Rotten Tomatoes Score	Metacritic Score
0	7.9	98.0	82.0
1	5.8	79.0	69.0
2	4.3	NaN	46.0
3	6.5	NaN	NaN

4	6.3	NaN	NaN
...
15478	NaN	NaN	NaN
15479	NaN	NaN	NaN
15480	NaN	NaN	NaN
15481	NaN	NaN	NaN
15482	NaN	NaN	NaN

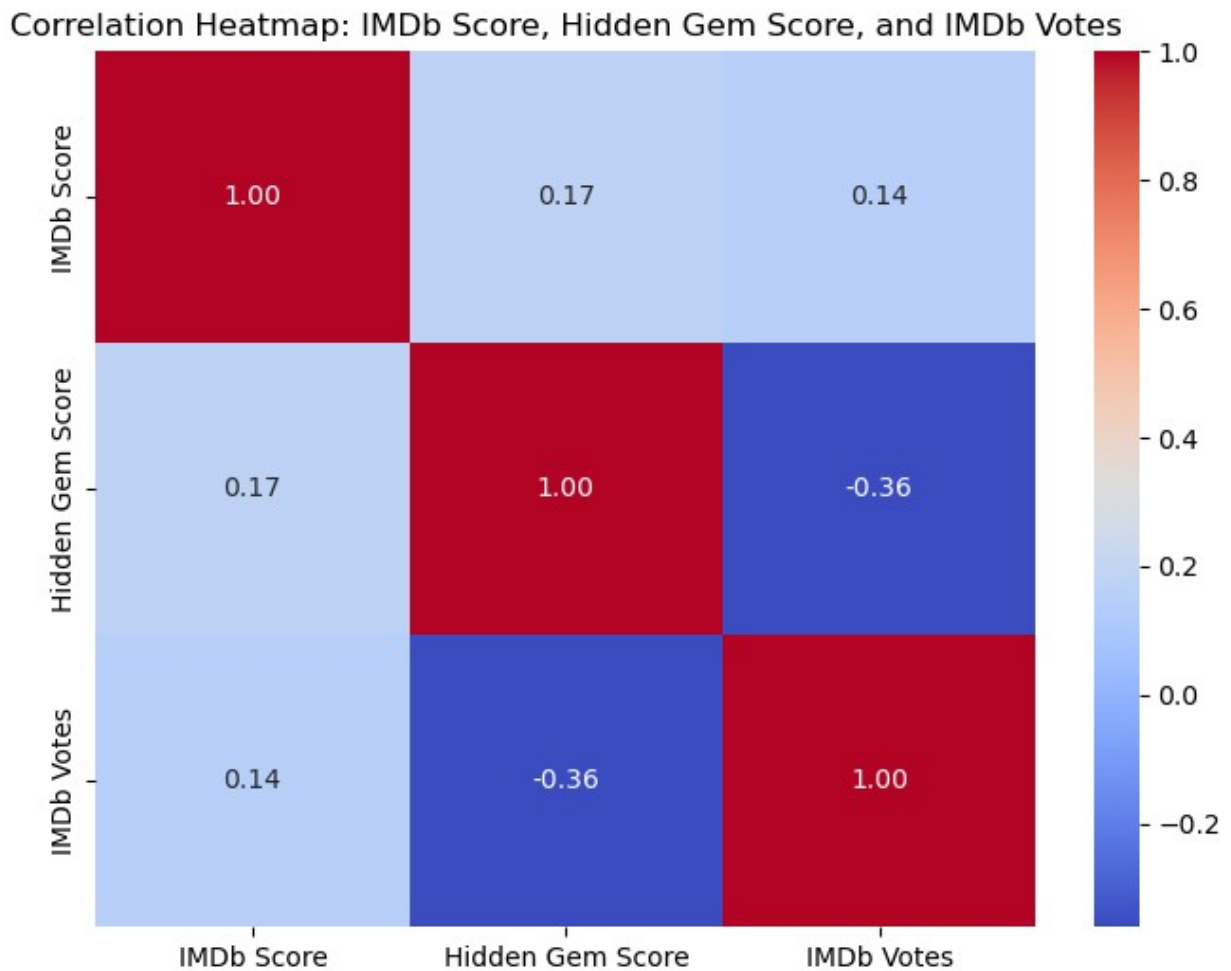
	Awards Nominated For	Boxoffice	Release Date	Netflix Release
Date \				
0	57.0	\$2,122,065	12-Dec-08	04-03-
2021				
1	NaN	\$70,632	08-May-20	04-03-
2021				
2	NaN	\$16,263	28-Aug-20	04-03-
2021				
3	NaN	NaN	01-Oct-16	04-03-
2021				
4	4.0	NaN	22-Sep-11	04-03-
2021				
...	
...				
15478	NaN	NaN	NaN	
NaN				
15479	NaN	NaN	NaN	
NaN				
15480	NaN	NaN	NaN	
NaN				
15481	NaN	NaN	NaN	
NaN				
15482	NaN	NaN	NaN	
NaN				

	Netflix Link	IMDb Votes
0	https://www.netflix.com/watch/81415947	205926.0
1	https://www.netflix.com/watch/81041267	2838.0
2	https://www.netflix.com/watch/81305978	1720.0
3	https://www.netflix.com/watch/81336456	1147.0
4	https://www.netflix.com/watch/81078393	63.0
...		
15478	NaN	NaN
15479	NaN	NaN
15480	NaN	NaN
15481	NaN	NaN
15482	NaN	NaN

[15483 rows x 20 columns]

```
# Extract necessary columns for correlation heatmap
correlation_data = df[['IMDb Score', 'Hidden Gem Score', 'IMDb
Votes']].dropna()

# Create the heatmap for correlation analysis
plt.figure(figsize=(8, 6))
sns.heatmap(correlation_data.corr(), annot=True, cmap='coolwarm',
fmt='.2f')
plt.title('Correlation Heatmap: IMDb Score, Hidden Gem Score, and IMDb
Votes')
plt.show()
```



```
# Preprocess genre data for line plots
# Split genres into lists and expand into rows
data_expanded =
df.assign(Genre=df['Genre'].str.split(',')).explode('Genre').dropna(su
bset=['IMDb Votes', 'IMDb Score'])
```

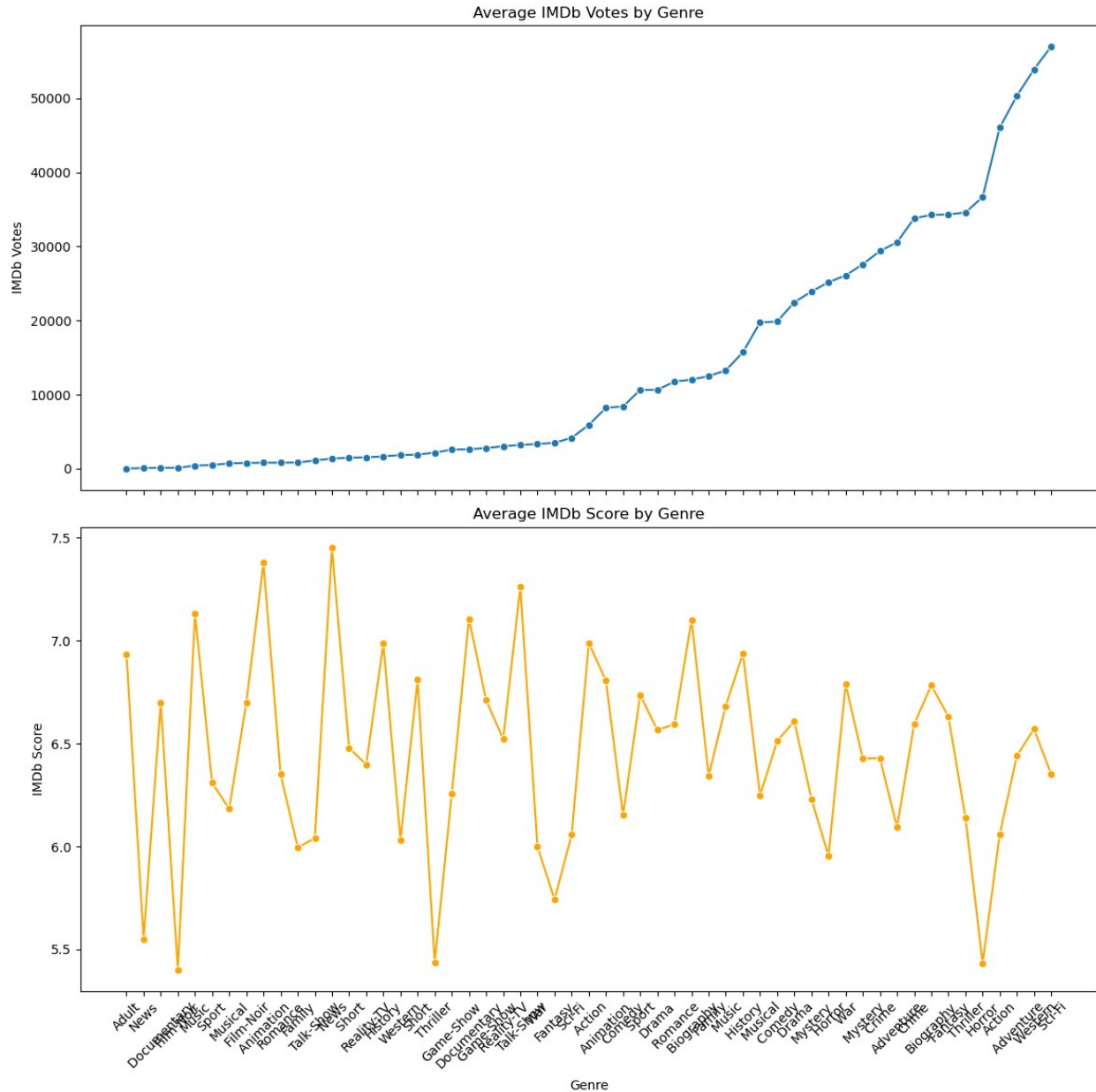
```
# Group by Genre for plotting
genre_grouped_votes = data_expanded.groupby('Genre')['IMDb
Votes'].mean().sort_values()
genre_grouped_scores = data_expanded.groupby('Genre')['IMDb
Score'].mean().sort_values()

# Create line plots and subplots
fig, axes = plt.subplots(2, 1, figsize=(12, 12), sharex=True)

# IMDb Votes by Genre
sns.lineplot(x=genre_grouped_votes.index,
y=genre_grouped_votes.values, ax=axes[0], marker='o')
axes[0].set_title('Average IMDb Votes by Genre')
axes[0].set_ylabel('IMDb Votes')
axes[0].tick_params(axis='x', rotation=45)

# IMDb Scores by Genre
sns.lineplot(x=genre_grouped_scores.index,
y=genre_grouped_scores.values, ax=axes[1], marker='o', color='orange')
axes[1].set_title('Average IMDb Score by Genre')
axes[1].set_ylabel('IMDb Score')
axes[1].tick_params(axis='x', rotation=45)

plt.tight_layout()
plt.show()
```



IMDb Votes by Genre

```
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IMDb Scores by Genre

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```

```
plt.tight_layout()  
plt.show()
```

<Figure size 640x480 with 0 Axes>