

```
# import csv file , paste file path in place of movies.csv
import pandas as pd
movies = pd.read_csv('movies.csv')
print(movies)
```

Rating \	Movie	Genre
0	3 Idiots	Comedy, Drama
8.4		
1	Anand	Drama
8.3		
2	Baahubali: The Beginning	Action, Adventure, Drama, Fantasy
8.3		
3	Bajrangi Bhaijaan	Action, Comedy, Drama
8.0		
4	Black	Drama, Thriller
8.2		
..	...	...
...		
75	Virumaandi	Action, Crime, Drama
8.1		
76	Wake Up Sid	Comedy, Drama, Romance
7.6		
77	Wazir	Crime, Thriller
7.0		
78	Welcome	Comedy, Drama
6.4		
79	Pathaan	Action, Adventure, Thriller\n
8.2		

	Year	Box Office Performance	Box Office Collection
0	2009	Super Hit	439 crore
1	1971	Hit	1.5 crore
2	2015	Blockbuster	650 crore
3	2015	Blockbuster	969 crore
4	2005	Hit	24.9 crore
..	...	...	...
75	2004	Flop	40 crore
76	2009	Hit	55 crore
77	2016	Flop	52.5 crore
78	2007	Blockbuster	1.35 billion
79	2023	Blockbuster	1.05 billion

[80 rows x 6 columns]

```
# importing json file
import pandas as pd
import json
movies = pd.read_csv('movies.csv')
# Define a function to handle JSON parsing errors
```

```

def parse_genre(x):
    try:
        return list(json.loads(x).values())
    except (json.JSONDecodeError, TypeError):
        print(f"Error parsing JSON in row: {x}")
        return None
# Apply the function to the 'Genre' column
movies['Genre'] = movies['Genre'].apply(parse_genre)
print(movies)

```

```

Error parsing JSON in row: Comedy, Drama
Error parsing JSON in row: Drama
Error parsing JSON in row: Action, Adventure, Drama, Fantasy
Error parsing JSON in row: Action, Comedy, Drama
Error parsing JSON in row: Drama, Thriller
Error parsing JSON in row: Drama, Sport
Error parsing JSON in row: Action, Comedy, Drama
Error parsing JSON in row: Biography, Drama, Sport
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Action, Crime, Thriller
Error parsing JSON in row: Crime, Drama, Thriller

```

```

Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Action, Romance, Thriller
Error parsing JSON in row: Comedy, Drama
Error parsing JSON in row: Action, Drama, Romance, Thriller
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Action, Crime, Drama, Thriller
Error parsing JSON in row: Comedy, Crime
Error parsing JSON in row: Crime, Drama
Error parsing JSON in row: Adventure, Crime, Drama, Romance
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Drama, Family
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: History, Romance, War
Error parsing JSON in row: Drama, Musical, Romance
Error parsing JSON in row: Crime, Drama, Mystery, Thriller
Error parsing JSON in row: Drama, Sport
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Action, Drama, History, War
Error parsing JSON in row: Action, Comedy, Crime, Thriller
Error parsing JSON in row: Action, Adventure, Sci-Fi, Thriller
Error parsing JSON in row: Comedy, Drama, Romance
Error parsing JSON in row: Drama, Romance, Sport
Error parsing JSON in row: Comedy, Drama
Error parsing JSON in row: Drama, Romance
Error parsing JSON in row: Action, Drama, Thriller
Error parsing JSON in row: Action, Crime, Drama, Thriller
Error parsing JSON in row: Drama, Romance
Error parsing JSON in row: Drama

```

Error parsing JSON in row: Comedy, Drama  
 Error parsing JSON in row: Crime, Drama, Thriller  
 Error parsing JSON in row: Action, Drama, Thriller  
 Error parsing JSON in row: Biography, Drama, Thriller  
 Error parsing JSON in row: Crime, Drama, Thriller  
 Error parsing JSON in row: Comedy, Drama  
 Error parsing JSON in row: Drama, History, Romance  
 Error parsing JSON in row: Action, Crime, Drama, Thriller  
 Error parsing JSON in row: Comedy, Drama, Sci-Fi  
 Error parsing JSON in row: Comedy, Drama  
 Error parsing JSON in row: Comedy, Drama, Romance  
 Error parsing JSON in row: Comedy, Drama  
 Error parsing JSON in row: Drama, History  
 Error parsing JSON in row: Action, Drama, Thriller  
 Error parsing JSON in row: Drama, Music, Romance  
 Error parsing JSON in row: Action, Comedy, Crime  
 Error parsing JSON in row: Drama, Romance  
 Error parsing JSON in row: Action, Crime, Thriller  
 Error parsing JSON in row: Comedy, Romance  
 Error parsing JSON in row: Crime, Drama, Thriller  
 Error parsing JSON in row: Drama  
 Error parsing JSON in row: Drama  
 Error parsing JSON in row: Comedy, Drama, Romance  
 Error parsing JSON in row: Action, Comedy  
 Error parsing JSON in row: Drama, Romance  
 Error parsing JSON in row: Action, Drama, Thriller  
 Error parsing JSON in row: Drama, Romance  
 Error parsing JSON in row: Comedy  
 Error parsing JSON in row: Drama, Thriller  
 Error parsing JSON in row: Crime, Drama  
 Error parsing JSON in row: Horror, Fantasy  
 Error parsing JSON in row: Action, Mystery, Thriller  
 Error parsing JSON in row: Drama  
 Error parsing JSON in row: Action, War  
 Error parsing JSON in row: Comedy, Romance  
 Error parsing JSON in row: Romance, Drama  
 Error parsing JSON in row: Action, Crime, Drama  
 Error parsing JSON in row: Comedy, Drama, Romance  
 Error parsing JSON in row: Crime, Thriller  
 Error parsing JSON in row: Comedy, Drama  
 Error parsing JSON in row: Action, Adventure, Thriller

	Movie	Genre	Rating	Year	Box Office
Performance \					
0	3 Idiots	None	8.4	2009	Super
Hit					
1	Anand	None	8.3	1971	
Hit					
2	Baahubali: The Beginning	None	8.3	2015	

Blockbuster					
3	Bajrangi Bhaijaan	None	8.0	2015	
Blockbuster					
4	Black	None	8.2	2005	
Hit					
..	...	...	...	...	..
.					
75	Virumaandi	None	8.1	2004	
Flop					
76	Wake Up Sid	None	7.6	2009	
Hit					
77	Wazir	None	7.0	2016	
Flop					
78	Welcome	None	6.4	2007	
Blockbuster					
79	Pathaan	None	8.2	2023	
Blockbuster					

	Box Office Collection
0	439 crore
1	1.5 crore
2	650 crore
3	969 crore
4	24.9 crore
..	...
75	40 crore
76	55 crore
77	52.5 crore
78	1.35 billion
79	1.05 billion

[80 rows x 6 columns]

```
# Assuming Movies is our existing DataFrame
import pandas as pd
import json
def parse_genre(x):
    try:
        return list(json.loads(x).values())
    except (json.JSONDecodeError, TypeError):
        return None # Handle parsing errors by returning None
movies['Genre'] = movies['Genre'].apply(parse_genre)
# Filter out rows with None values in the 'Genre' column
movies_new = movies.dropna(subset=['Genre'])
print(movies_new)
```

Empty DataFrame  
Columns: [Movie, Genre, Rating, Year, Box Office Performance, Box Office Collection]  
Index: []

```
# Remember Use Your Data In Place Of Movie & Genre that is in your csv file
```

```
x = movies_new['Movie']
y = movies_new['Genre']
print("Input Feature (x):")
print(x.head())
print("\nTarget Variable (y):")
print(y.head())
```

```
Input Feature (x):
Series([], Name: Movie, dtype: object)
```

```
Target Variable (y):
Series([], Name: Genre, dtype: object)
```

```
# Split data into train and validation sets
```

```
import pandas as pd
from sklearn.model_selection import train_test_split
```

```
data = pd.read_csv('movies.csv')
```

```
x = data[['Movie', 'Rating', 'Year', 'Box Office Performance', 'Box Office Collection']]
y = data['Genre']
```

```
xtrain, xval, ytrain, yval = train_test_split(x, y, test_size=0.2,
random_state=42)
```

```
# Print the shapes of the train and validation sets
```

```
print("Shape of xtrain:", xtrain.shape)
print("Shape of xval:", xval.shape)
print("Shape of ytrain:", ytrain.shape)
print("Shape of yval:", yval.shape)
```

```
Shape of xtrain: (64, 5)
Shape of xval: (16, 5)
Shape of ytrain: (64,)
Shape of yval: (16,)
```

```
# Create TF-IDF features
```

```
from sklearn.feature_extraction.text import TfidfVectorizer
```

```
tfidf_vectorizer = TfidfVectorizer(max_df=0.8, max_features=10000)
xtrain_tfidf = tfidf_vectorizer.fit_transform(xtrain)
xval_tfidf = tfidf_vectorizer.transform(xval)
```

```
print("Shape of xtrain_tfidf:", xtrain_tfidf.shape)
print("Shape of xval_tfidf:", xval_tfidf.shape)
```

```
print("TF-IDF matrix for xtrain:")
print(xtrain_tfidf.toarray())
```

```

Shape of xtrain_tfidf: (5, 7)
Shape of xval_tfidf: (5, 7)
TF-IDF matrix for xtrain:
[[0.      0.      1.      0.      0.      0.
  0.      ]
 [0.      0.      0.      0.      0.      1.
  0.      ]
 [0.      0.      0.      0.      0.      0.
  1.      ]
 [0.53177225 0.      0.      0.53177225 0.659118  0.
  0.      ]
 [0.53177225 0.659118  0.      0.53177225 0.      0.
  0.      ]]

```

*# Fit the model on the train set*

```

import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression

data = pd.read_csv('movies.csv')

x = data[['Movie', 'Rating', 'Year', 'Box Office Performance', 'Box
Office Collection']]
y = data['Genre']

xtrain, xval, ytrain, yval = train_test_split(x, y, test_size=0.2,
random_state=42)

s
tfidf_vectorizer = TfidfVectorizer(max_df=0.8, max_features=10000)
xtrain_tfidf = tfidf_vectorizer.fit_transform(xtrain['Movie'])
xval_tfidf = tfidf_vectorizer.transform(xval['Movie'])
print("Shape of xtrain_tfidf:", xtrain_tfidf.shape)
print("Shape of xval_tfidf:", xval_tfidf.shape)

clf = LogisticRegression()

clf.fit(xtrain_tfidf, ytrain)

print("Model fitting complete.")

print("TF-IDF matrix for xtrain:")
print(xtrain_tfidf.toarray())

print("Model coefficients:")
print(clf.coef_)

Shape of xtrain_tfidf: (64, 119)
Shape of xval_tfidf: (16, 119)
Model fitting complete.

```

```

TF-IDF matrix for xtrain:
[[0.          0.          0.          ... 0.          0.          0.
]
 [0.          0.          0.          ... 0.57735027 0.          0.
]
 [0.          0.          0.          ... 0.          0.          0.
]
 ...
 [0.          0.          0.          ... 0.          0.          0.
]
 [0.          0.          0.          ... 0.          0.          0.
]
 [0.          0.          0.          ... 0.          0.          0.
]]
Model coefficients:
[[-0.01042013 -0.00711175 -0.01088444 ... -0.00868449 -0.01504197
  -0.00851848]
 [-0.01059416 -0.00723056 -0.01106616 ... -0.00882951 -0.01529315
  -0.00866075]
 [-0.02076874 -0.01418108 -0.02168186 ... -0.01730474 -0.02997269
  -0.01697823]
 ...
 [-0.0105291  -0.00718614 -0.01099822 ... -0.00877529 -0.01519925
  -0.00860756]
 [-0.01059416 -0.00723056 -0.01106616 ... -0.00882951 -0.01529315
  -0.00866075]
 [-0.01059416 -0.00723056  0.67778238 ... -0.00882951 -0.01529315
  -0.00866075]]

# Make predictions on the validation set
y_pred_prob = clf.predict_proba(xval_tfidf)
t = 0.3 # threshold value
y_pred_new = (y_pred_prob >= t).astype(int)

print("Predicted Probabilities:")
print(y_pred_prob)
print("\nBinary Predictions (Threshold = 0.3):")
print(y_pred_new)

Predicted Probabilities:
[[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293
  0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041
  0.07766032 0.01579293 0.01579293 0.03139041 0.01579293 0.01557507
  0.01579293 0.01579293 0.01579293 0.01579293 0.01579293 0.03139041
  0.01579293 0.04531168 0.01579293 0.01545044 0.06237381 0.03139041
  0.01579293 0.01575032 0.01579293 0.04691401 0.04594178 0.01571
  0.01579293 0.01579293 0.07656212 0.01569034 0.01579293 0.01579293]
 [0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293
  0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041
  0.07766032 0.01579293 0.01579293 0.03139041 0.01579293 0.01557507

```

0.01579293 0.01579293 0.01579293 0.01579293 0.01579293 0.03139041  
0.01579293 0.04531168 0.01579293 0.01545044 0.06237381 0.03139041  
0.01579293 0.01575032 0.01579293 0.04691401 0.04594178 0.01571  
0.01579293 0.01579293 0.07656212 0.01569034 0.01579293 0.01579293]  
[0.01519286 0.01547869 0.03053902 0.01547869 0.01547869 0.01547869  
0.01547869 0.01523408 0.01547869 0.01547869 0.01547869 0.03053902  
0.07406909 0.01547869 0.01547869 0.03053902 0.01547869 0.01526672  
0.01547869 0.01547869 0.01547869 0.01547869 0.01547869 0.03053902  
0.01547869 0.04353478 0.01547869 0.01511967 0.05986209 0.03053902  
0.01547869 0.01543724 0.01547869 0.04532431 0.07340882 0.015398  
0.01547869 0.01547869 0.07258968 0.01537888 0.01547869 0.01547869]  
[0.0148957 0.01515627 0.02988416 0.01515627 0.01515627 0.01515627  
0.01515627 0.01493292 0.01515627 0.01515627 0.01515627 0.02988416  
0.12162093 0.01515627 0.01515627 0.02988416 0.01515627 0.01494881  
0.01515627 0.01515627 0.01515627 0.01515627 0.01515627 0.02988416  
0.01515627 0.04283757 0.01515627 0.01483013 0.05847781 0.02988416  
0.01515627 0.0151157 0.01515627 0.04431728 0.04341969 0.0150773  
0.01515627 0.01515627 0.07129623 0.01505859 0.01515627 0.01515627]  
[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293  
0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041  
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0.01579293 0.01579293 0.07656212 0.01569034 0.01579293 0.01579293]  
[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293  
0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041  
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[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293  
0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041  
0.07766032 0.01579293 0.01579293 0.03139041 0.01579293 0.01557507  
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[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293  
0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041  
0.07766032 0.01579293 0.01579293 0.03139041 0.01579293 0.01557507  
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[0.01551928 0.01579293 0.03139041 0.01579293 0.01579293 0.01579293  
0.01579293 0.01555837 0.01579293 0.01579293 0.01579293 0.03139041  
0.07766032 0.01579293 0.01579293 0.03139041 0.01579293 0.01557507



	0.01579293	0.01579293	0.01579293	0.01579293	0.01579293	0.03139041
	0.01579293	0.04531168	0.01579293	0.01545044	0.06237381	0.03139041
	0.01579293	0.01575032	0.01579293	0.04691401	0.04594178	0.01571
	0.01579293	0.01579293	0.07656212	0.01569034	0.01579293	0.01579293]
[	0.01551928	0.01579293	0.03139041	0.01579293	0.01579293	0.01579293
	0.01579293	0.01555837	0.01579293	0.01579293	0.01579293	0.03139041
	0.07766032	0.01579293	0.01579293	0.03139041	0.01579293	0.01557507
	0.01579293	0.01579293	0.01579293	0.01579293	0.01579293	0.03139041
	0.01579293	0.04531168	0.01579293	0.01545044	0.06237381	0.03139041
	0.01579293	0.01575032	0.01579293	0.04691401	0.04594178	0.01571
	0.01579293	0.01579293	0.07656212	0.01569034	0.01579293	0.01579293]
[	0.01551928	0.01579293	0.03139041	0.01579293	0.01579293	0.01579293
	0.01579293	0.01555837	0.01579293	0.01579293	0.01579293	0.03139041
	0.07766032	0.01579293	0.01579293	0.03139041	0.01579293	0.01557507
	0.01579293	0.01579293	0.01579293	0.01579293	0.01579293	0.03139041
	0.01579293	0.04531168	0.01579293	0.01545044	0.06237381	0.03139041
	0.01579293	0.01575032	0.01579293	0.04691401	0.04594178	0.01571
	0.01579293	0.01579293	0.07656212	0.01569034	0.01579293	0.01579293]
[	0.01446174	0.01471319	0.02883394	0.01471319	0.01471319	0.01471319
	0.01471319	0.01449767	0.01471319	0.01471319	0.01471319	0.02883394
	0.06855573	0.01471319	0.01471319	0.02883394	0.01471319	0.01451299
	0.01471319	0.01471319	0.01471319	0.01471319	0.01471319	0.02883394
	0.01471319	0.0411136	0.01471319	0.01439846	0.13942646	0.02883394
	0.01471319	0.01467404	0.01471319	0.04250816	0.04166239	0.01463698
	0.01471319	0.01471319	0.06764668	0.01461893	0.01471319	0.01471319]
[	0.01551928	0.01579293	0.03139041	0.01579293	0.01579293	0.01579293
	0.01579293	0.01555837	0.01579293	0.01579293	0.01579293	0.03139041
	0.07766032	0.01579293	0.01579293	0.03139041	0.01579293	0.01557507
	0.01579293	0.01579293	0.01579293	0.01579293	0.01579293	0.03139041
	0.01579293	0.04531168	0.01579293	0.01545044	0.06237381	0.03139041
	0.01579293	0.01575032	0.01579293	0.04691401	0.04594178	0.01571
	0.01579293	0.01579293	0.07656212	0.01569034	0.01579293	0.01579293]
[	0.01551928	0.01579293	0.03139041	0.01579293	0.01579293	0.01579293
	0.01579293	0.01555837	0.01579293	0.01579293	0.01579293	0.03139041
	0.07766032	0.01579293	0.01579293	0.03139041	0.01579293	0.01557507
	0.01579293	0.01579293	0.01579293	0.01579293	0.01579293	0.03139041
	0.01579293	0.04531168	0.01579293	0.01545044	0.06237381	0.03139041
	0.01579293	0.01575032	0.01579293	0.04691401	0.04594178	0.01571
	0.01579293	0.01579293	0.07656212	0.01569034	0.01579293	0.01579293]
[	0.01551928	0.01579293	0.03139041	0.01579293	0.01579293	0.01579293
	0.01579293	0.01555837	0.01579293	0.01579293	0.01579293	0.03139041
	0.07766032	0.01579293	0.01579293	0.03139041	0.01579293	0.0



[illegible]

```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import f1_score

data = pd.read_csv('movies.csv')

x = data[['Movie', 'Rating', 'Year', 'Box Office Performance', 'Box
Office Collection']]
y = data['Genre']
```

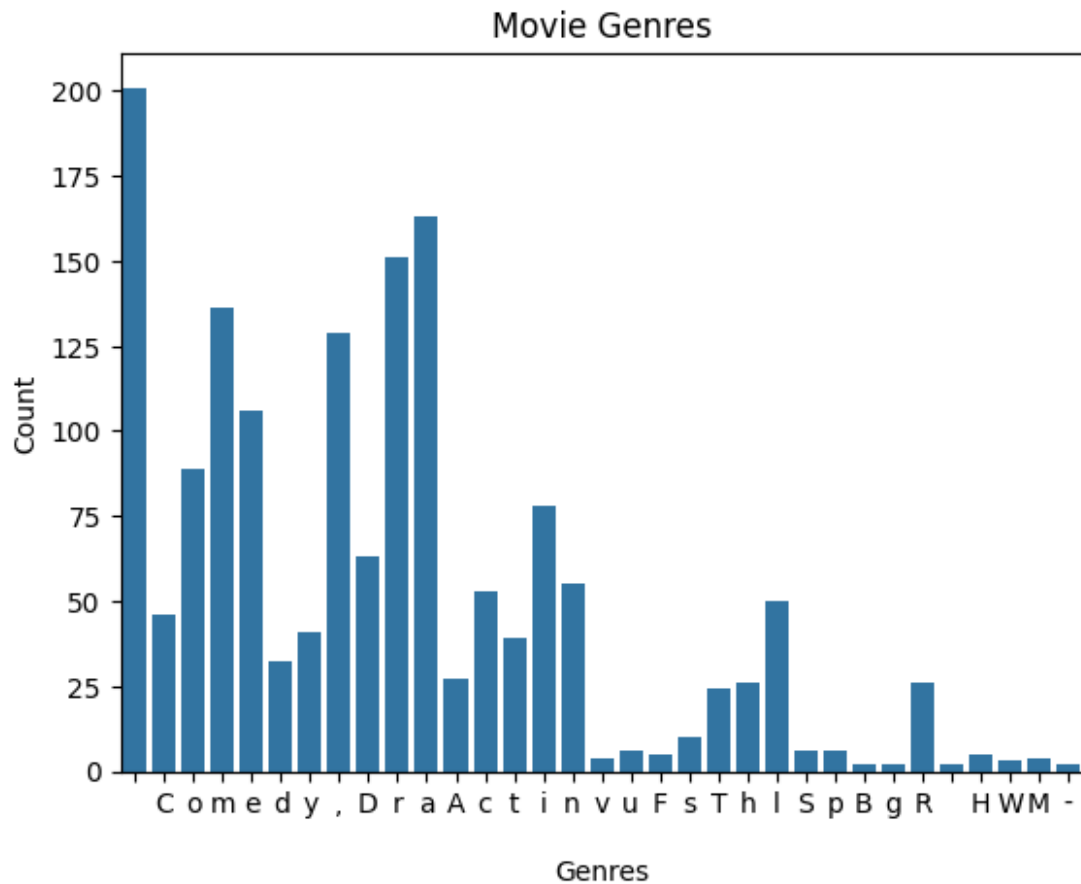
```
xtrain, xval, ytrain, yval = train_test_split(x, y, test_size=0.2,
random_state=42)
```

```
tfidf_vectorizer = TfidfVectorizer(max_df=0.8, max_features=10000)
xtrain_tfidf = tfidf_vectorizer.fit_transform(xtrain['Movie'])
xval_tfidf = tfidf_vectorizer.transform(xval['Movie'])
```

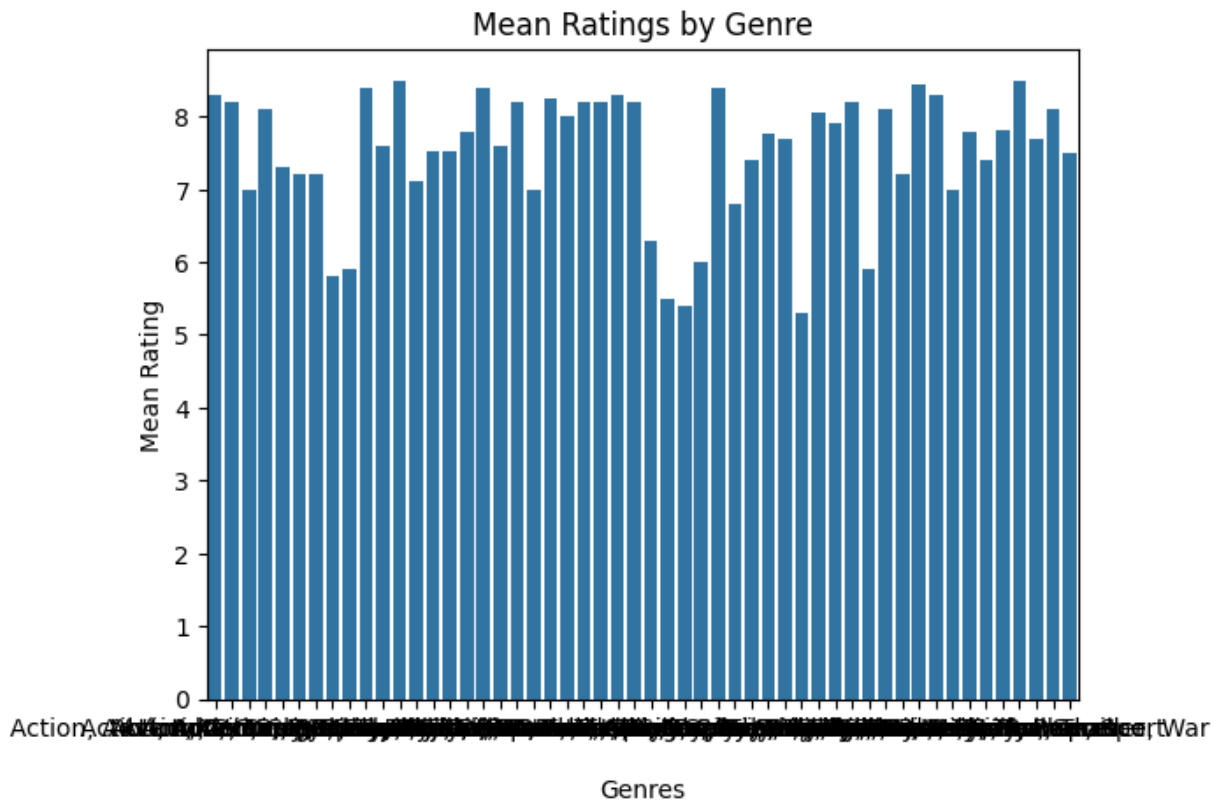
```
y_pred_new = clf.predict(xval_tfidf)
f1 = f1_score(yval, y_pred_new, average="macro")
print("F1 score:", f1)
```

F1 score: 0.075

```
import seaborn as sns
import matplotlib.pyplot as plt
data = pd.read_csv('movies.csv')
data_new = data.dropna(subset=['Genre'])
genres = [genre for sublist in data_new['Genre'] for genre in sublist]
sns.countplot(x=genres)
plt.title("Movie Genres")
plt.xlabel("Genres")
plt.ylabel("Count")
plt.show()
```



```
# Calculate the mean rating for each genre
mean_ratings = data_new.explode('Genre').groupby('Genre')
['Rating'].mean()
sns.barplot(x=mean_ratings.index, y=mean_ratings.values)
plt.title("Mean Ratings by Genre")
plt.xlabel("Genres")
plt.ylabel("Mean Rating")
plt.show()
```



```
import matplotlib.pyplot as plt
genre_counts = data_new['Genre'].explode().value_counts()
plt.pie(genre_counts, labels=genre_counts.index, autopct='%1.1f%%')
plt.axis('equal')
plt.title("Movie Distribution by Genre")
plt.show()
```



```
controllers."  
predict_genre(title, description)
```

Predicted Probabilities:

```
[[0.02121001 0.01477981 0.02818218 0.01477981 0.01477981 0.01477981  
 0.01477981 0.02003884 0.01477981 0.01477981 0.01477981 0.02818218  
 0.06242863 0.01477981 0.01477981 0.02818218 0.01477981 0.01457634  
 0.01477981 0.01477981 0.01477981 0.01477981 0.01477981 0.02818218  
 0.01477981 0.074557 0.01477981 0.02363583 0.05190743 0.02818218  
 0.01477981 0.01474159 0.01477981 0.04050929 0.05337834 0.01470544  
 0.01477981 0.01477981 0.09514955 0.01753527 0.01477981 0.01477981]]
```

Binary Predictions (Threshold = 0.3):

```
[[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
0 0  
 0 0 0 0 0 0]]
```

Predicted Genre:

```
['Drama, Romance']
```