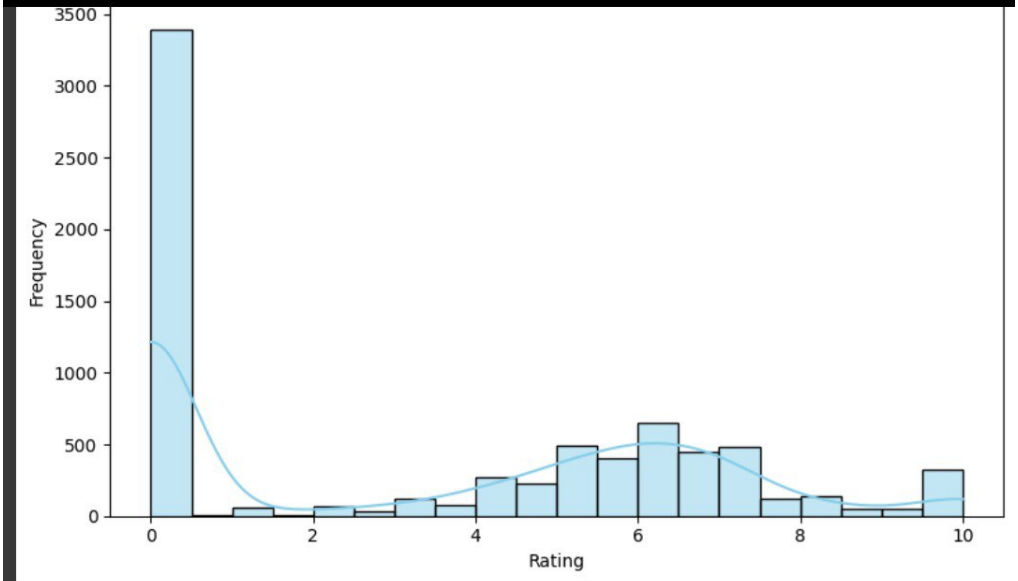
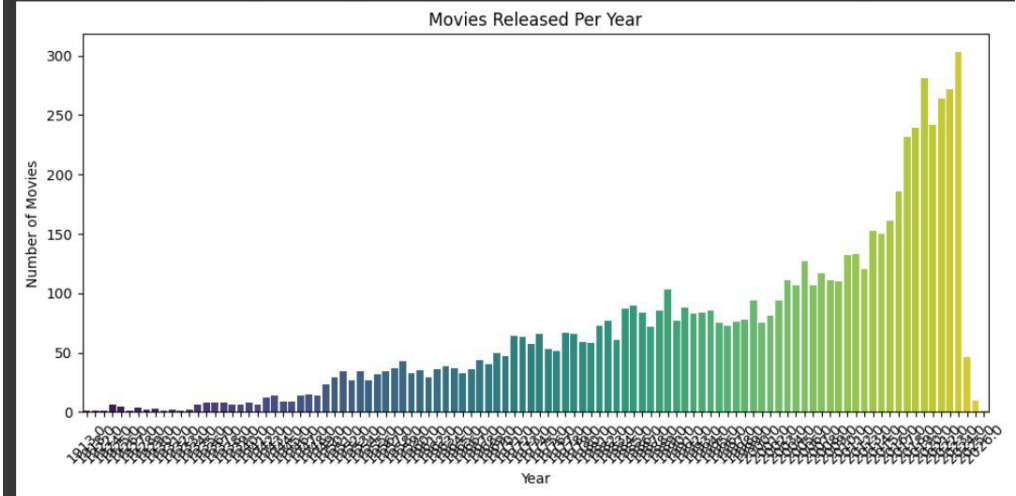
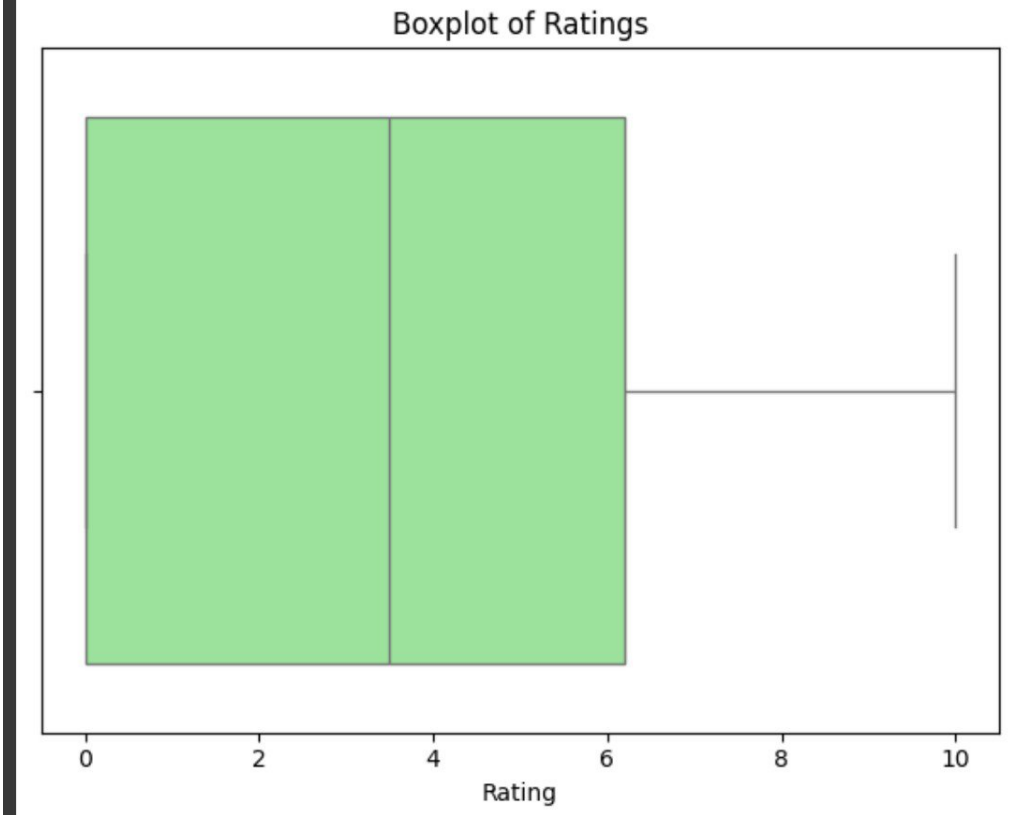
```
Dataset loaded successfully.
Shape: (7419, 5)
   movies id                    title    year
0     872906                    Jawan  2023.0
1     554600  Uri: The Surgical Strike  2019.0
2     781732                   Animal  2023.0
3     975533              The Archies  2023.0
4     734253                Adipurush  2023.0

                        genres
0  Action|Adventure|Documentary
1                        Crime
2          Action|Horror|Comedy
3            Thriller|Animation
4   Adventure|Documentary|Crime

Null values:
 movies id      0
title           0
year          353
rating          0
genres          0
dtype: int64

Preprocessing complete. Cleaned data preview:
   movies id                    title    year
0     872906                    Jawan  2023.0
1     554600  Uri: The Surgical Strike  2019.0
2     781732                   Animal  2023.0
3     975533              The Archies  2023.0
4     734253                Adipurush  2023.0

                        genres  scaled_rating
0  Action|Adventure|Documentary           0.73
1                        Crime           0.72
2          Action|Horror|Comedy           0.74
3            Thriller|Animation           0.71
4   Adventure|Documentary|Crime           0.53
```




```
<ipython-input-5-d965b4cb0c97>:24: FutureWarni

Passing `palette` without assigning `hue` is d

  sns.countplot(x='year', data=movies, palette
```



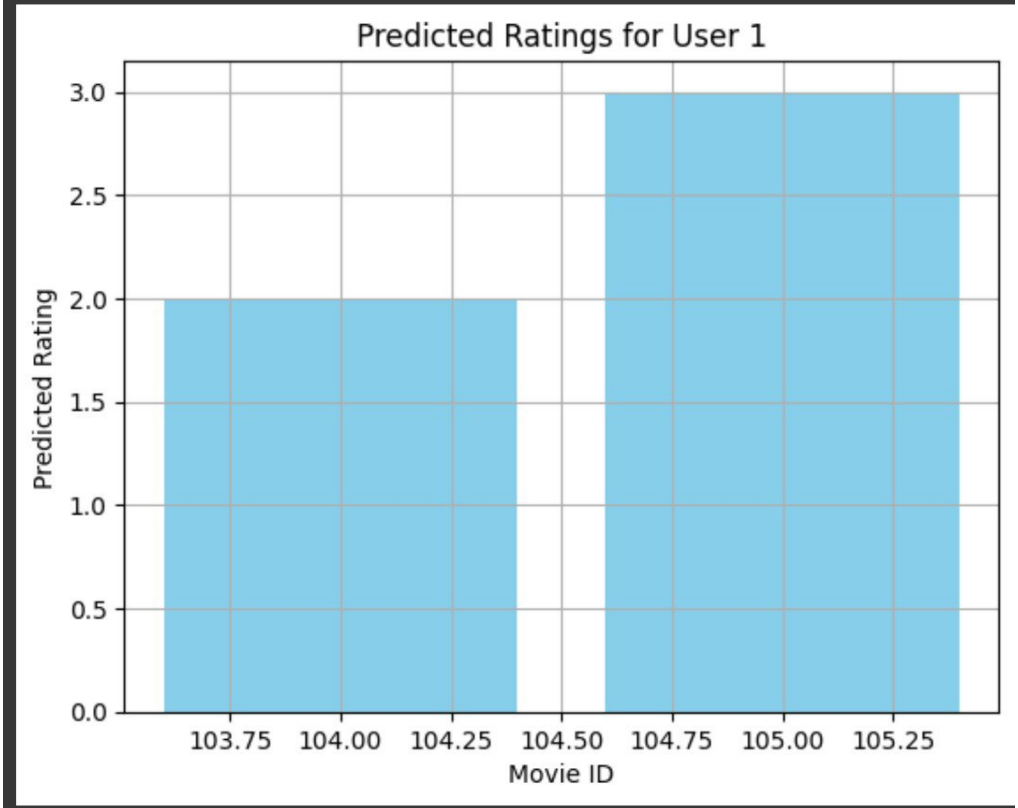


```
Feature engineering complete. Saved as 'feature_engineered_movies.csv'.
```

	movies id	title	year	rating	genres	scaled_rating	movie_age	age_group	ag
0	872906	Jawan	2023.0	7.3	Action|Adventure|Documentary	0.73	2	New	
1	554600	Uri: The Surgical Strike	2019.0	7.2	Crime	0.72	6	Modern	
2	781732	Animal	2023.0	7.4	Action|Horror|Comedy	0.74	2	New	
3	975533	The Archies	2023.0	7.1	Thriller|Animation	0.71	2	New	
4	734253	Adipurush	2023.0	5.3	Adventure|Documentary|Crime	0.53	2	New	

```
Model built and deployment files saved successfully.
```

```
User-User Similarity Matrix:
userId     1     2     3     4
userId
1       1.00  0.66  0.00  0.50
2       0.66  1.00  0.29  0.66
3       0.00  0.29  1.00  0.44
4       0.50  0.66  0.44  1.00

Predicted ratings for User 1:
Movie 104: 2.00
Movie 105: 3.00
```



Drag from top and touch the back button to exit full screen.