## Model Prediction

```
Enter year:  2014
Enter duration (e.g., '2h 15m'):  2h 49m
Enter age limit (e.g., 'PG-13'):  12A
Enter number of ratings (e.g., '1.5M' or '500K'):  2.1M
Enter Metascore:  74
Predicted IMDb Rating using Random Forest: 8.678000000000008
Predicted IMDb Rating using SVR: 8.600192230763284
```

## IMDb Rating

### Interstellar
2014 · 12A · 2h 49m

IMDb RATING
⭐ 8.7/10
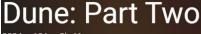2.1M

## Model Prediction

```
Enter year:  2019
Enter duration (e.g., '2h 15m'):  2h 2m
Enter age limit (e.g., 'PG-13'):  15
Enter number of ratings (e.g., '1.5M' or '500K'):  1.5M
Enter Metascore:  59
Predicted IMDb Rating using Random Forest: 8.344999999999992
Predicted IMDb Rating using SVR: 8.30045787620646
```

## IMDb Rating

### Joker
2019 · 15 · 2h 2m

IMDb RATING
⭐ 8.4/10
1.5M

## Model Prediction

```
Enter year:  2024
Enter duration (e.g., '2h 15m'):  2h 46m
Enter age limit (e.g., 'PG-13'):  12A
Enter number of ratings (e.g., '1.5M' or '500K'):  464k
Enter Metascore:  79
Predicted IMDb Rating using Random Forest: 8.347000000000012
Predicted IMDb Rating using SVR: 7.804472702429665
```

## IMDb Rating



Dune: Part Two
2024 · 12A · 2h 46m
IMDb RATING
⭐ 8.6/10
464K

## Model Prediction

```
Enter year:  1972
Enter duration (e.g., '2h 15m'):  2h 55m
Enter age limit (e.g., 'PG-13'):  15
Enter number of ratings (e.g., '1.5M' or '500K'):  2M
Enter Metascore:  100
Predicted IMDb Rating using Random Forest: 9.064000000000005
Predicted IMDb Rating using SVR: 9.099885485874276
```

## IMDb Rating



The Godfather
1972 · 15 · 2h 55m
IMDb RATING
⭐ 9.2/10
2M

## Model Prediction

```
Enter year:  1994
Enter duration (e.g., '2h 15m'):  1h 28m
Enter age limit (e.g., 'PG-13'):  U
Enter number of ratings (e.g., '1.5M' or '500K'):  1.2M
Enter Metascore:  88
Predicted IMDb Rating using Random Forest: 8.454999999999998
Predicted IMDb Rating using SVR: 8.386553208508756
```

## IMDb Rating

# The Lion King
1994 · U · 1h 28m

**IMDb RATING**
⭐ **8.5**/10
1.2M

## Model Prediction

```
Enter year:  2017
Enter duration (e.g., '2h 15m'):  1h 44m
Enter age limit (e.g., 'PG-13'):  15
Enter number of ratings (e.g., '1.5M' or '500K'):  709k
Enter Metascore:  85
Predicted IMDb Rating using Random Forest: 7.965999999999993
Predicted IMDb Rating using SVR: 7.8759197698408
```

## IMDb Rating

# Get Out
2017 · 15 · 1h 44m

**IMDb RATING**
⭐ **7.8**/10
709K

## Model Prediction

```
Enter year:  2001
Enter duration (e.g., '2h 15m'):  2h 32m
Enter age limit (e.g., 'PG-13'):  PG
Enter number of ratings (e.g., '1.5M' or '500K'):  862k
Enter Metascore:  65
Predicted IMDb Rating using Random Forest: 8.071000000000003
Predicted IMDb Rating using SVR: 8.088320984118656
```

## IMDb Rating

# Harry Potter and the Philosopher's Stone
Original title: Harry Potter and the Sorcerer's Stone
2001 · PG · 2h 32m

**IMDb RATING**
⭐ **7.6**/10
862K

## Model Prediction

```
Enter year:  2015
Enter duration (e.g., '2h 15m'):  2h
Enter age limit (e.g., 'PG-13'):  15
Enter number of ratings (e.g., '1.5M' or '500K'):  1.1M
Enter Metascore:  90
Predicted IMDb Rating using Random Forest: 8.19800000000001
Predicted IMDb Rating using SVR: 8.17693880792878
```

## IMDb Rating

Mad Max: Fury Road
2015 · 15 · 2h

IMDb RATING
★ 8.1/10
1.1M

## Model Prediction

```
Enter year:  2013
Enter duration (e.g., '2h 15m'):  3h
Enter age limit (e.g., 'PG-13'):  18
Enter number of ratings (e.g., '1.5M' or '500K'):  1.6M
Enter Metascore:  75
Predicted IMDb Rating using Random Forest: 8.257000000000007
Predicted IMDb Rating using SVR: 8.411618712858436
```

## IMDb Rating

The Wolf of Wall Street
2013 · 18 · 3h

IMDb RATING
★ 8.2/10
1.6M

## Model Prediction

```
Enter year:  2009
Enter duration (e.g., '2h 15m'):  2h 42m
Enter age limit (e.g., 'PG-13'):  12A
Enter number of ratings (e.g., '1.5M' or '500K'):  1.4M
Enter Metascore:  83
Predicted IMDb Rating using Random Forest: 8.04199999999999
Predicted IMDb Rating using SVR: 8.266801294343338
```

## IMDb Rating

Avatar
2009 · 12A · 2h 42m

IMDb RATING
★ 7.9/10
1.4M

## Conclusion

The comparative evaluation between Random Forest and Support Vector Regression (SVR) in predicting IMDb ratings reveals that Random Forest demonstrates superior predictive accuracy in a majority of cases. Specifically, in a test comprising 10 instances, Random Forest provided predictions that were closer to the actual values in 7 instances, whereas SVR achieved this level of accuracy in 3 instances. This outcome suggests that Random Forest may be more effective.