## **DEVELOPMENT PART-2**

## PREDICTION IMDB SCORE

**INTRODUCTION:** IMDb is a platform that provides a vast collection of data related to films, **TV series**, and other media content. It offers users the ability to explore details about movies and shows, such as cast and crew information, release dates, plot summaries, trivia, user reviews, ratings, and much more. Whether you're a casual moviegoer or a dedicated film enthusiast, IMDb offers a wealth of information to satisfy your curiosity.

# MDb's Role in the Entertainment Industry

#### Importance and Influence

- Information Hub: IMDb is a central repository of data that offers an unparalleled collection of information about movies, TV shows, actors, directors, and crew members. Filmmakers, journalists, researchers, and enthusiasts rely on IMDb for accurate and comprehensive details about productions.
- 2. **Audience Engagement**: IMDb provides a platform for viewers to rate, review, and discuss movies and TV shows. User-generated content fosters engagement, allowing audiences to express opinions, form communities, and engage in conversations around their favorite media.
- Talent Discovery: As a database accessible to industry professionals, IMDb serves
  as a tool for discovering new and established talent. Actors, directors, and crew
  members can showcase their work, facilitating networking and collaboration
  opportunities.

# **User-Generated Content on IMDb**

### **User Reviews and Ratings**

4. **Personal Reviews**: Users can write detailed reviews for movies and TV shows, sharing their thoughts, **analyses**, **and recommendations** with the community.

5. **Star Ratings**: IMDb allows users to rate movies and TV shows on a scale of 1 to 10 stars, contributing to the overall rating and helping others gauge audience reception.

#### **Contributions to Data Accuracy**

- 6. **Edit and Correct Information**: Users have the ability to edit and correct certain information on IMDb. This collaborative effort enhances the accuracy and completeness of the database.
- 7. **Trivia and Quotes**: Enthusiasts can add interesting trivia, memorable quotes, and connections between movies, contributing to the platform's depth of information.

#### **Community and Forums**

- 8. **Message Boards (Formerly)**: IMDb used to host message boards where users could engage in discussions about movies, actors, and various topics related to the entertainment industry.
- Community Contributions: Users can participate in discussions, ask questions, and share their expertise within the IMDb community, connecting with others who share similar interests.

# IMDbPro: The Professional Version

### **Benefits for Industry Professionals**

- 10. **Contact Information**: IMDbPro provides access to contact details of industry insiders, including actors, directors, producers, agents, and executives. This facilitates **direct communication** and collaboration.
- 11. **Casting Information**: IMDbPro offers insights into casting details for upcoming roles, enabling actors and casting directors to find suitable talent for projects.
- 12. Box Office Data: IMDbPro provides box office data, including opening weekend grosses and historical performance, helping professionals gauge the success of different titles.

#### **Advanced Features and Tools**

- 13. **Starmeter Rankings**: IMDbPro subscribers can see their "Starmeter" rankings, which reflect their popularity and visibility within the **entertainment industry**.
- 14. **Enhanced Profiles**: IMDbPro users have the option to add additional information and media to their profiles, making them more informative and engaging for potential collaborators.
- 15. **Messaging**: The platform enables direct messaging between professionals, streamlining communication for networking and collaboration purposes.

import numpy as np import pandas as pd

data = pd.read\_csv('movie\_metadata.csv') data.head()

data.dropna(axis=0,how='any')

Out[5]:

In [2]:

data.dropna(axis=0,how='any')

Out[5]:

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datadf.head()
datadf = datadf.replace(0,float("NaN"))
datadf.head() print len(datadf)
datadf = datadf.dropna(axis=0,how='any') print len(datadf)
1990
datadf.head()
datadf = datadf.drop(datadf.columns[[3]],axis=1)
datadf = datadf.round(0)
datadf = datadf.astype(int)
datadf.head()
np.array(datadf)
                                                                                   Out[29]:
            813, 22000, 27000, ..., 23000,
                                                       8, 164000],
array([[
                                                       7, 24000],
            462, 475, 640, ..., 632,
                                            553,
                     15,
                              799, ...,
                                                       8, 29000],
            324,
                             785, ..., 98,
291, ..., 45,
86, ..., 23,
             13,
                     120, 785, ...,
                                                       5,
                                                              424],
            143,
                     291,
                                                       7, 19000],
                             86, ...,
             43,
                      16,
                                                              45611)
                                                                                    In [34]:
type(datadf['budget'])
                                                                                   Out[34]:
pandas.core.series.Series
                                                                                    In [37]:
type(datadf.iloc[:,6])
                                                                                   Out[37]:
pandas.core.series.Series
                                                                                    In [42]:
datadf = pd.read_csv('movie_metadata_filtered_aftercsv.csv') #separate classes and stuffs y =
np.array(datadf['imdb_score']) X = np.array(datadf.drop(datadf.columns[[0,8]],axis=1))
                                                                                    In [43]:
Χ
array([[
                         22000, 27000, ..., 250000000,
                                                                         8,
               813,
            164000],
                           475,
                                      640, ..., 263700000,
        462,
                                                                         6,
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24000],
                            15,
                                        799, ..., 260000000,
                                                                        7,
       [
               324,
             29000],
                13,
                           120,
                                        785, ...,
                                                      200000,
                                                                        5,
       [
               424],
               143,
                           291,
                                        291, ...,
                                                         7000,
                                                                        7,
             19000],
       43,
                            16,
                                         86, ...,
                                                         1100,
                                                                        6,
               456]])
                                                                                    In [40]:
len(X[0])
                                                                                   Out[40]:
10
                                                                                    In [47]:
y[np.newaxis].T
                                                                                   Out[47]:
array([[8],
       [6],
        [7],
       [5],
        [7],
       [6]])
                                                                                    In [44]:
datadf
def make in format(): datadf = pd.read csv('movie metadata filtered aftercsv.csv') #separate classes
and stuffs y = np.array(datadf['imdb_score']) datadf = datadf.drop(datadf.columns[[8,0]],axis=1)
#normalize datadf = (datadf-datadf.mean())/(datadf.max()-datadf.min()) X = np.array(datadf) return
X,y
                                                                                    In [50]:
from sklearn.cross_validation import train_test_split X,y = _make_in_format()
X_train,X_test,y_train,y_test = train_test_split(X,y,test_size=0.3,random_state=0)
X_train
                                                                                   Out[51]:
         1.02685224e-01,
                             -1.75031825e-02, -1.80870525e-02, ...,
array([[
          -3.45409216e-03,
                               1.57035176e-02,
                                                   1.54215703e-02],
        [ -1.76871426e-01,
                              -4.22444643e-02, -1.80870525e-02, ...,
          -3.24943414e-03,
                              -3.59296482e-01, -3.79945147e-02],
       [ -5.74132980e-02,
                              -3.95485777e-02, -2.29563395e-02, ...,
          -3.02358650e-04,
                              1.57035176e-02, -7.50132858e-03],
        [ -1.41157140e-01,
                              -4.20270541e-02, -2.46678977e-02, ...,
          -3.43771952e-03,
                              1.40703518e-01, -3.77538243e-02],
        [ -1.32536451e-01, -3.58091221e-02,
                                                   6.65293084e-02, ...,
          -5.47948275e-04,
                               1.57035176e-02,
                                                 -3.80117069e-02],
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[ -3.22610590e-03, -4.12443774e-02, -2.21101759e-02, ..., -2.02148602e-03, 1.57035176e-02, -3.61578175e-02]])

In [52]:

y_train

Out[52]:

array([ 0.01570352, -0.35929648, 0.01570352, ..., 0.14070352, 0.01570352, 0.01570352])

In []:
```

# Conclusion

The Internet Movie Database (IMDb) stands as a remarkable testament to the power of information and community within the realm of entertainment. From its humble origins as a personal project to becoming a global phenomenon, IMDb has redefined how we explore, appreciate, and engage with movies and TV shows.

IMDb's influence on the entertainment industry is undeniable. It serves as an essential resource for filmmakers, actors, and industry professionals, offering a comprehensive platform for networking, research, and project exploration. The IMDbPro subscription further caters to the needs of those working behind the scenes, providing tools to navigate the intricate web of the industry.