In [1]:	ir	<pre>import pandas as pd</pre>							
In [2]:	ir	<pre>import numpy as np</pre>							
In [3]:	dí	df=pd.read_csv("https://github.com/YBI-Foundation/Dataset/raw/main/Movies%20Recommendatio							
In [4]:	di	df.head()							
Out[4]:		Movie_ID	Movie_Title	Movie_Genre	Movie_Language	Movie_Budget	Movie_Popularity	Movie_Release_Date	Мо
	0	1	Four Rooms	Crime Comedy	en	4000000	22.876230	09-12-1995	
	1	2	Star Wars	Adventure Action Science Fiction	en	11000000	126.393695	25-05-1977	
	2	3	Finding Nemo	Animation Family	en	94000000	85.688789	30-05-2003	
	3	4	Forrest Gump	Comedy Drama Romance	en	55000000	138.133331	06-07-1994	
	4	5	American Beauty	Drama	en	15000000	80.878605	15-09-1999	

5 rows × 21 columns

In [5]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4760 entries, 0 to 4759
Data columns (total 21 columns):

#	Column	Non-Null Count	Dtype
0	Movie_ID	4760 non-null	int64
1	Movie_Title	4760 non-null	object
2	Movie_Genre	4760 non-null	object
3	Movie_Language	4760 non-null	object
4	Movie_Budget	4760 non-null	int64
5	Movie Popularity	4760 non-null	float64

```
4760 non-null
         6
            Movie Release Date
                                                      object
         7
            Movie Revenue
                                      4760 non-null
                                                     int64
         8 Movie Runtime
                                     4758 non-null float64
           Movie Vote
                                     4760 non-null float64
         9
         10 Movie Vote Count
                                      4760 non-null int64
         11 Movie Homepage
                                     1699 non-null object
                                     4373 non-null object
         12 Movie Keywords
                                     4757 non-null object
         13 Movie Overview
         14 Movie Production House 4760 non-null object
         15 Movie Production Country 4760 non-null object
         16 Movie Spoken Language
                                     4760 non-null object
         17 Movie_Tagline
                                      3942 non-null object
         18 Movie Cast
                                      4733 non-null object
         19 Movie Crew
                                      4760 non-null object
         20 Movie Director
                                     4738 non-null object
        dtypes: float64(3), int64(4), object(14)
        memory usage: 781.1+ KB
In [6]:
         df.shape
        (4760, 21)
Out[6]:
 In [7]:
         df.columns
        Index(['Movie ID', 'Movie Title', 'Movie Genre', 'Movie Language',
 Out[7]:
               'Movie Budget', 'Movie Popularity', 'Movie Release Date',
               'Movie Revenue', 'Movie Runtime', 'Movie Vote', 'Movie Vote Count',
               'Movie Homepage', 'Movie Keywords', 'Movie Overview',
               'Movie Production House', 'Movie Production Country',
               'Movie Spoken Language', 'Movie Tagline', 'Movie Cast', 'Movie Crew',
               'Movie Director'],
              dtype='object')
In [8]:
         df features=df[["Movie Genre",'Movie Keywords','Movie Tagline','Movie Cast','Movie Direct
In [9]:
         df features.shape
        (4760, 5)
Out[9]:
In [10]:
         df features
Out[10]:
               Movie Genre
                               Movie Keywords
                                                    Movie Tagline
                                                                         Movie Cast Movie Director
```

out[10]: _	wiovie_Genre		wovie_keywords	wovie_ragiine	Movie_Cast	Movie_Director
	0	Crime Comedy	hotel new year's eve witch bet hotel room	Twelve outrageous guests. Four scandalous requ	Tim Roth Antonio Banderas Jennifer Beals Madon	Allison Anders
	1	Adventure Action Science Fiction	android galaxy hermit death star lightsaber	A long time ago in a galaxy far, far away	Mark Hamill Harrison Ford Carrie Fisher Peter	George Lucas
	2	Animation Family	father son relationship harbor underwater fish	There are 3.7 trillion fish in the ocean, they	Albert Brooks Ellen DeGeneres Alexander Gould	Andrew Stanton
	3	Comedy Drama Romance	vietnam veteran hippie mentally disabled runni	The world will never be the same, once you've	Tom Hanks Robin Wright Gary Sinise Mykelti Wil	Robert Zemeckis

	Movie_Genre	Movie_Keywords	Movie_Tagline	Movie_Cast	Movie_Director
4	Drama	male nudity female nudity adultery midlife cri	Look closer.	Kevin Spacey Annette Bening Thora Birch Wes Be	Sam Mendes
•••					
4755	Horror		The hot spot where Satan's waitin'.	Lisa Hart Carroll Michael Des Barres Paul Drak	Pece Dingo
4756	Comedy Family Drama		It's better to stand out than to fit in.	Roni Akurati Brighton Sharbino Jason Lee Anjul	Frank Lotito
4757	Thriller Drama	christian film sex trafficking	She never knew it could happen to her	Nicole Smolen Kim Baldwin Ariana Stephens Brys	Jaco Booyens
4758	Family				
4759	Documentary	music actors legendary perfomer classic hollyw		Tony Oppedisano	Simon Napier- Bell
4760 rows × 5 columns					

4760 rows × 5 columns

```
In [11]:
         x=df_features['Movie_Genre']+' '+df_features['Movie_Keywords']+' '+df features['Movie_Tag
In [12]:
                Crime Comedy hotel new year's eve witch bet ho...
Out[12]:
                Adventure Action Science Fiction android galax...
                Animation Family father son relationship harbo...
         3
                 Comedy Drama Romance vietnam veteran hippie me...
                 Drama male nudity female nudity adultery midli...
         4755 Horror The hot spot where Satan's waitin'. Li...
         4756 Comedy Family Drama It's better to stand out ...
         4757 Thriller Drama christian film sex trafficking ...
         4758
         4759
                Documentary music actors legendary perfomer cl...
         Length: 4760, dtype: object
In [13]:
         x.shape
         (4760,)
Out[13]:
In [14]:
         from sklearn.feature extraction.text import TfidfVectorizer
In [15]:
          tfidf=TfidfVectorizer()
In [16]:
         x=tfidf.fit_transform(x)
In [17]:
         x. shape
```

```
(0, 9675)
              0.14226057295252661
(0, 9465)
              0.1659841367820977
(0, 1390)
              0.16898383612799558
(0, 7825)
              0.09799561597509843
(0, 1214)
              0.13865857545144072
(0, 729)
              0.13415063359531618
(0, 13093)
              0.1432591540388685
(0, 15355)
              0.10477815972666779
(0, 9048)
              0.0866842116160778
(0, 11161)
              0.06250380151644369
(0, 16773)
              0.17654247479915475
(0, 5612)
              0.08603537588547631
(0, 16735)
              0.10690083751525419
(0, 7904)
              0.13348000542112332
(0, 15219)
              0.09800472886453934
(0, 11242)
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(0, 3878)
              0.11998399582562203
(0, 5499)
              0.11454057510303811
(0, 7071)
              0.19822417598406614
(0, 7454)
              0.14745635785412262
(0, 1495)
              0.19712637387361423
(0, 9206)
              0.15186283580984414
(4757, 5455)
             0.12491480594769522
(4757, 2967)
              0.16273475835631626
(4757, 8464)
              0.23522565554066333
(4757, 6938)
              0.17088173678136628
(4757, 8379)
              0.17480603856721913
(4757, 15303) 0.07654356007668191
(4757, 15384) 0.09754322497537371
(4757, 7649) 0.11479421494340192
(4757, 10896) 0.14546473055066447
(4757, 4494)
              0.05675298448720501
(4758, 5238) 1.0
(4759, 11264) 0.33947721804318337
(4759, 11708) 0.33947721804318337
(4759, 205)
              0.3237911628497312
(4759, 8902) 0.3040290704566037
(4759, 14062) 0.3237911628497312
(4759, 3058)
              0.2812896191863103
(4759, 7130)
              0.26419662449963793
(4759, 10761) 0.3126617295732147
(4759, 4358) 0.18306542312175342
(4759, 14051) 0.20084315377640435
(4759, 5690) 0.19534291014627303
(4759, 15431) 0.19628653185946862
(4759, 1490) 0.21197258705292082
(4759, 10666) 0.15888268987343043
```

In [19]: from sklearn.metrics.pairwise import cosine_similarity

```
In [20]: similarity_score=cosine_similarity(x)
In [21]:
         similarity score
        array([[1.
                           , 0.01351235, 0.03570468, ..., 0.
                                                                     , 0.
Out[21]:
                 0.
                [0.01351235, 1.
                                       , 0.00806674, ..., 0.
                                                                    , 0.
                0.
                [0.03570468, 0.00806674, 1.
                                                  , ..., 0.
                                                                     , 0.08014876,
                0.
                          ],
                . . . ,
                [0.
                           , 0.
                                       , 0.
                                                , \ldots, 1.
                                                                     , 0.
                0.
                          ],
                           , 0.
                [0.
                                       , 0.08014876, ..., 0.
                                                                     , 1.
                0.
                           ],
                [0.
                                       , 0.
                                               , ..., 0.
                                                                     , 0.
                           , 0.
                 1.
                           ]])
In [22]:
         similarity score.shape
         (4760, 4760)
Out[22]:
In [23]:
         favourite movie name=input('enter your favorite movie name:')
        enter your favorite movie name:avtaar
In [24]:
         all movies title list=df['Movie Title'].tolist()
In [25]:
         import difflib
In [27]:
         movie recommendation=difflib.get close matches(favourite movie name,all movies title list
         print(movie recommendation)
         ['Avatar', 'Gattaca']
In [28]:
         close match=movie recommendation[0]
         print(close match)
        Avatar
In [29]:
         index of close match movie=df[df.Movie Title==close match]['Movie ID'].values[0]
         print(index of close match movie)
        2692
In [32]:
          #getting list of similar movies
         recommendation score=list(enumerate(similarity score[index of close match movie]))
         print(recommendation score)
         [(0, 0.009805093506053453), (1, 0.0), (2, 0.0), (3, 0.00800429043895183), (4, 0.0026759665)
```

928032302), (5, 0.009639835665946627), (6, 0.0049636657561850026), (7, 0.01284882743722095

```
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In [33]:

len(recommendation score)

Out[33]:

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In [34]:

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(4547, 0.0), (4549, 0.0), (4556, 0.0), (4558, 0.0), (4559, 0.0), (4560, 0.0), (4561, 0.0), (4562, 0.0), (4565, 0.0), (4568, 0.0), (4569, 0.0), (4570, 0.0), (4577, 0.0), (4578, 0.0), (4580, 0.0), (4592, 0.0), (4597, 0.0), (4599, 0.0), (4600, 0.0), (4609, 0.0), (4613, 0.0), (4615, 0.0), (4618, 0.0), (4622, 0.0), (4628, 0.0), (4631, 0.0), (4635, 0.0), (4644, 0.0), (4647, 0.0), (4648, 0.0), (4651, 0.0), (4654, 0.0), (4655, 0.0), (4662, 0.0), (4677, 0.0), (4671, 0.0), (4672, 0.0), (4675, 0.0), (4676, 0.0), (4681, 0.0), (4683, 0.0), (4688, 0.0), (4690, 0.0), (4700, 0.0), (4702, 0.0), (4711, 0.0), (4714, 0.0), (4716, 0.0), (4720, 0.0), (4725, 0.0), (4728, 0.0), (4730, 0.0), (4736, 0.0), (4737, 0.0), (4740, 0.0), (4741, 0.0), (4742, 0.0), (4745, 0.0), (4750, 0.0), (4751, 0.0), (4754, 0.0), (4755, 0.0), (4758, 0.0), (4759, 0.0)]

```
In [42]:
```

```
#print nameof the simila movies based on the index
print("top 30 movies suggested for you:\n")
i = 1
for movie in sorted_similar_movies:
   index=movie[0]
   title_from_index=df[df.index==index]['Movie_Title'].values[0]
   if (i<31):
        print(i,'.',title_from_index)
        i=i+1</pre>
```

top 30 movies suggested for you:

```
1 . Niagara
```

- 2 . Caravans
- 3 . My Week with Marilyn
- 4 . Brokeback Mountain
- 5 . Harry Brown
- 6 . Night of the Living Dead
- 7 . The Curse of Downers Grove
- 8 . The Boy Next Door
- 9 . Back to the Future
- 10 . The Juror
- 11 . Some Like It Hot
- 12 . Enough
- 13 . The Kentucky Fried Movie
- 14 . Eye for an Eye
- 15 . Welcome to the Sticks
- 16 . Alice Through the Looking Glass
- 17 . Superman III
- 18 . The Misfits
- 19 . Premium Rush
- 20 . Duel in the Sun
- 21 . Sabotage
- 22 . Small Soldiers
- 23 . All That Jazz
- 24 . Camping Sauvage
- 25 . The Raid
- 26 . Beyond the Black Rainbow
- 27 . To Kill a Mockingbird
- 28 . World Trade Center
- 29 . The Dark Knight Rises
- 30 . Tora! Tora! Tora!

```
print("top 10 movies suggested for you:\n")
        i = 1
        for movie in sorted similar movies:
            index=movie[0]
            title from index=df[df.index==index]['Movie Title'].values
            if (i<11):
                print(i,'.',title from index)
                i=i+1
       enter your favorite movie name:avtaar
       top 10 movies suggested for you:
       1 . ['Niagara']
       2 . ['Caravans']
       3 . ['My Week with Marilyn']
       4 . ['Brokeback Mountain']
       5 . ['Harry Brown']
        6 . ['Night of the Living Dead']
       7 . ['The Curse of Downers Grove']
       8 . ['The Boy Next Door']
       9 . ['Back to the Future']
       10 . ['The Juror']
In [ ]:
```