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In [ ]:
         import pandas as pd
         import numpy as np
         import warnings
         warnings.filterwarnings('ignore')
         column_name=['user_id','item_id','rating','timestamp']
df=pd.read_csv('u.data',sep="\t",names=column_name)
         df.head()
         df.shape
         df['user_id']
         movies_title=pd.read_csv(r'u.item', sep="\|", header=None, encoding='ISO-8859-1')
         movies_titles=movies_title[[0,1]]
         movies_titles.columns=["item_id","title"]
         movies_titles.head()
         df=pd.merge(df,movies_titles,on="item_id")
         df
         ratings=pd.DataFrame(df.groupby('title').mean()['rating'])
         ratings.head()
In [ ]:
         ratings['num of ratings']=pd.DataFrame(df.groupby('title').count()['rating'])
         df.head()
         moviemat=df.pivot_table(index="user_id", columns="title", values="rating")
         moviemat.head()
         copycat_user_ratings=moviemat['Copycat (1995)']
         copycat_user_ratings.head()
         similar_to_copycat=moviemat.corrwith(copycat_user_ratings)
         similar_to_copycat
         corr_copycat=pd.DataFrame(similar_to_copycat,columns=['correlation'])
         corr_copycat.dropna(inplace=True)
         corr_copycat
         corr_copycat.sort_values('correlation', ascending=False).head(10)
         corr_copycat=corr_copycat.join(ratings['num of ratings'])
         corr_copycat
         def predict_movies(movie_name):
              movie_user_ratings=moviemat[movie_name]
              similar_to_movie=moviemat.corrwith(movie_user_ratings)
              corr_movie=pd.DataFrame(similar_to_movie, columns=['correlation'])
             corr_movie.dropna(inplace=True)
             corr_movie=corr_movie.join(ratings['num of ratings'])
             predictions=corr_movie[corr_movie['num of ratings']>100].sort_values('correlation', ascending=False)
              return predictions
In [ ]:
         predict_my_movie=predict_movies("Titanic (1997)")
         predict_my_movie.head()
In [ ]:
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