```
import pandas as pd
from sklearn.metrics.pairwise import cosine similarity
from sklearn.model selection import train test split
from sklearn.metrics import mean squared error
from math import sqrt
ratings=pd.read csv('C:\ratings.csv')
movies=pd.read csv("C:\movies metadata.csv")
df = pd.merge(ratings, movies, left on='movieId', right on='id')
train data, test data = train test split(df, test size=0.25)
ratings train = train data.pivot table(index=['userId'], columns=['movieId'], values='rating')
ratings test = test data.pivot table(index=['userId'], columns=['movieId'], values='rating')
ratings train = ratings train.fillna(0)
ratings test = ratings test.fillna(0)
user similarity = cosine similarity(ratings train)
user prediction = ratings train.dot(user similarity) / (user similarity.sum(axis=1))
user prediction flatten = user prediction.values.flatten()
ratings test flatten = ratings test.values.flatten()
user prediction flatten = user prediction flatten[~np.isnan(ratings test flatten)]
ratings test flatten = ratings test flatten[~np.isnan(ratings test flatten)]
rmse = sqrt(mean squared error(user prediction flatten, ratings test flatten))
print(f"RMSE: {rmse}")
```