RECOMMENDATION SYSTEM:

FULL CODE:  
# -\*- coding: utf-8 -\*-

"""

Created on Mon Nov 2 18:11:50 2020

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"""

import pandas as pd

import numpy as np

book\_it=pd.read\_csv("book1.csv")

book\_it[0:5]

len(book\_it.UserID.unique())

len(book\_it.BookTitle.unique())

user\_book=book\_it.pivot(index='UserID',columns='BookTitle',values='BookRating').reset\_index(drop=True)

user\_book

user\_book.index=book\_it.UserID.unique()

user\_book

user\_book.fillna(0,inplace=True)

user\_book

from sklearn.metrics import pairwise\_distances

from scipy.spatial.distance import cosine,correlation

user\_scop=1-pairwise\_distances(user\_book.values,metric="cosine")

user\_scop

user\_sim=pd.DataFrame(user\_scop)

user\_sim.index=book\_it.UserID.unique()

user\_sim.columns=book\_it.UserID.unique()

user\_sim.iloc[0:5,0:5]

np.fill\_diagonal(user\_scop, 0)

user\_sim.iloc[0:5,0:5]

user\_sim.idxmax(axis=1)[0:5]

book\_it[(book\_it["UserID"]==276747) | (book\_it["UserID"]==276768)]

user\_1=book\_it[(book\_it['UserID']==276768)]

user\_2=book\_it[(book\_it['UserID']==276804)]

user\_2.BookTitle

user\_1.BookTitle

pd.merge(user\_1,user\_2,on='BookTitle',how='outer')















