import matplotlib.pyplot as plt

import networkx as nx

import numpy as np

import pandas as pd

df=pd.read\_excel(r'E:\competitions\Statistical modeling\data\second\similarity\_matrix222.xlsx')

similr\_matrix=df.values

G=nx.Graph()

for i in range(similr\_matrix.shape[0]):

for j in range(i,similr\_matrix.shape[1]):

if i != j and similr\_matrix[i,j] > 0.5:

G.add\_edge(i,j,weight=similr\_matrix[i,j])

pos=nx.spring\_layout(G)

nx.draw(G,pos,with\_labels=False,node\_color='skyblue',edge\_color='lightblue')

plt.show()