import numpy as np

import pandas as pd

import networkx as nx

import matplotlib.pyplot as plt

states=['eating','sleeping','simply sitting']

pi=[0.35,0.35,0.3]

state\_space=pd.Series(pi,index=states,name='states')

print(state\_space)

print(state\_space.sum())

q\_df=pd.DataFrame(columns=states,index=states)

q\_df.loc[states[0]]=[0.4,0.2,0.4]

q\_df.loc[states[1]]=[0.45,0.45,.1]

q\_df.loc[states[2]]=[0.45,0.25,0.3]

print(q\_df)

q=q\_df.values

print('\n',q,q.shape,'\n')

print(q\_df.sum(axis=1))

from pprint import pprint

def \_get\_markov\_edges(Q):

edges={}

for col in Q.columns:

for idx in Q.index:

edges[(idx,col)]=Q.loc[idx,col]

return edges

edges\_wts=\_get\_markov\_edges(q\_df)

pprint(edges\_wts)