The following steps are based on that we have created dictionary and corpus:

**1. Create user vector for each user:**

python3 create\_user\_vector.py biz\_review\_sub\_cleaned.csv > user\_vector.txt

Line in the output: user\_id, vector list of each user

**2.Find the similar use with the highest similarity scores:**

python3 compute\_similar\_users.py user\_vector.txt > similar\_user.txt

Line in the output: user\_id, sim\_user\_id

\*Open dataframe user\_vector.txt from last step and loop over it

**3.Find each (user and restaurant) unique pair:**

python3 find\_user\_rest\_pair.py biz\_review\_sub\_cleaned.csv > user\_rest\_pair.txt

Line in the output of txt file: [user\_id, rest\_id, latitude, longitude], vector list of each restaurant

\*Need to change the output file user\_rest\_pair.txt to a csv file user\_rest\_pair.csv and the codes are in user\_rest\_pair\_csv.ipynb

Line in the output of csv file: user, rest, la, lon, vector(vector for each restaurant)

**4.Find unique restaurant pair for user and similar user:**

python3 compute\_unique\_restaurants.py similar\_user.txt > user\_sim\_res\_pair.txt

Line in the output: Null, [user\_id, sim\_use\_id, rest, sim\_rest, similar\_score, distance]

\*Need to import “user\_rest\_pair.csv” as dataframe and filter in the process

**5. Find the restaurant to be recommended to each user from the restaurant lists of his or her similar user:**

python3 compute\_restaurant\_recs.py user\_sim\_res\_pair.txt > result.txt

Line in the output: [user\_id, sim\_user\_id], [score, restaurant\_rec]