```
In []: import pandas as pd import numpy as np import matplotlib.pyplot as plt import seaborn as sns #chinese plt.rcParams['font.sans-serif']=['SimHei'] plt.rcParams['axes.unicode_minus']=False

In []: data_hope_new=pd.read_csv('data_hope_new.csv') data_base_new=pd.read_csv('data_base_new.csv') data=pd.read_excel('D:\M\MATLAB Driver/forward\eleven\有效问卷 (描述) .xlsx',she

In []: #合并data_hope_new和data_base_new数据 data_new=pd.concat([data_hope_new,data_base_new],axis=1) data_new=data_new.reset_index(drop=True) data_new
```

In []: #在data_new中第一列添加data数据的"旅居养老意愿"列 data_new.insert(0,'旅居养老意愿',data['旅居养老意愿']) data_new

274 rows × 20 columns

1 2 1

1 2 2

2 3

3 ... 86

... 71

1 3

3 3

2 4

274 rows × 21 columns

4 4 3 3

4 5

2 5

2 5 4 4 5

In []: #对data_new进行标准化

from sklearn.preprocessing import StandardScaler
scaler=StandardScaler()
data_new_=scaler.fit_transform(data_new)
data_new_=pd.DataFrame(data_new_)
data_new_

3 3 2

4 4

5 5 4 5

Out[]:		0	1	2	3	4	5	6	7	
	0	0.407379	-1.434239	-1.316622	0.078894	-1.237520	0.077798	0.000000	-1.354085	-0.1
	1	0.407379	-1.434239	-1.316622	0.078894	-1.237520	-1.044127	0.000000	-0.121463	-0.1
	2	0.407379	-1.434239	-1.316622	1.159748	-1.237520	-2.166051	-2.414495	-2.586707	-1.3
	3	0.407379	-1.434239	0.451782	0.078894	1.225535	0.077798	1.207248	1.111159	1.C
	4	0.407379	-1.434239	-1.316622	-1.001959	-2.058538	-1.044127	0.000000	-0.121463	-0.1
	•••	•••								
	269	-2.454718	0.667266	-0.432420	-1.001959	-0.416502	0.077798	-1.207248	-0.121463	-1.3
	270	0.407379	1.367768	1.335984	0.078894	1.225535	1.199722	-1.207248	-1.354085	-1.3
	271	-2.454718	0.667266	0.451782	-1.001959	-0.416502	0.077798	-1.207248	-1.354085	-2.6
	272	0.407379	1.367768	0.451782	0.078894	1.225535	0.077798	0.000000	-0.121463	-0.1
	273	0.407379	1.367768	0.451782	0.078894	1.225535	1.199722	1.207248	-0.121463	1.0

274 rows × 21 columns

Out[

In []: #为data_new_添加data_new的列名
data_new_.columns=data_new.columns
data_new_

]:		旅居养老 意愿	我曾经在 旅居地投 资买房	我的年出 游花费消 费数额较 大	我的子女 都支持我 选择旅居 养老	我曾经有 过旅居养 老的经历	通过宜 传,我对 旅居养老 有了充分 的了解	旅居养老 地所在的 交通要方 便	旅居养老 机构的服 务质量要 完善	旅服所旅应的
	0	0.407379	-1.434239	-1.316622	0.078894	-1.237520	0.077798	0.000000	-1.354085	-0.1
	1	0.407379	-1.434239	-1.316622	0.078894	-1.237520	-1.044127	0.000000	-0.121463	-0.1
	2	0.407379	-1.434239	-1.316622	1.159748	-1.237520	-2.166051	-2.414495	-2.586707	-1.3
	3	0.407379	-1.434239	0.451782	0.078894	1.225535	0.077798	1.207248	1.111159	1.0
	4	0.407379	-1.434239	-1.316622	-1.001959	-2.058538	-1.044127	0.000000	-0.121463	-0.1
	•••									
	269	-2.454718	0.667266	-0.432420	-1.001959	-0.416502	0.077798	-1.207248	-0.121463	-1.3
	270	0.407379	1.367768	1.335984	0.078894	1.225535	1.199722	-1.207248	-1.354085	-1.3
	271	-2.454718	0.667266	0.451782	-1.001959	-0.416502	0.077798	-1.207248	-1.354085	-2.6
	272	0.407379	1.367768	0.451782	0.078894	1.225535	0.077798	0.000000	-0.121463	-0.1
	273	0.407379	1.367768	0.451782	0.078894	1.225535	1.199722	1.207248	-0.121463	1.0

274 rows × 21 columns

```
In []: #替换data_new_中的"旅居养老意愿"列的值为data中"旅居养老意愿"的值
        data_new_['旅居养老意愿']=data['旅居养老意愿']
        #替换data_new_的"旅居养老意愿"1为0,2为1
        data_new_['旅居养老意愿']=data_new_['旅居养老意愿'].replace(1,0)
        data_new_['旅居养老意愿']=data_new_['旅居养老意愿'].replace(2,1)
In [ ]:
        data_new_
Out[ ]:
             旅
                                                                                 旅居养老
                                                       通过宜
                                                               旅居养老
                                                                        旅居养老
                                                                                 服务机构
             居
                          我的年出
                                   我的子女
                 我曾经在
                                             我曾经有
                                                     传, 我对
             养
                                                               地所在的
                                                                        机构的服
                                                                                 所提供的
                          游花费消
                                   都支持我
                 旅居地投
                                            过旅居养
                                                      旅居养老
             老
                                                                                 旅游产品
                                   选择旅居
                                                               交通要方
                                                                        务质量要
                          费数额较
                   资买房
                                            老的经历
                                                      有了充分
             意
                               大
                                       养老
                                                                    便
                                                                           完善
                                                                                 应有较高
                                                       的了解
             愿
                                                                                 的性价比
             1 -1.434239 -1.316622
                                   0.078894
                                           -1.237520
                                                     0.077798
                                                              0.000000
                                                                       -1.354085
                                                                                -0.178068
          0
              1 -1.434239
                         -1.316622
                                            -1.237520
                                                    -1.044127
                                   0.078894
                                                              0.000000
                                                                       -0.121463
                                                                                -0.178068
                         -1.316622
          2
              1 -1.434239
                                   1.159748
                                           -1.237520
                                                     -2.166051
                                                              -2.414495
                                                                       -2.586707
                                                                                -1.397835
              1 -1.434239
                          0.451782
                                   0.078894
                                            1.225535
                                                      0.077798
                                                               1.207248
                                                                        1.111159
                                                                                 1.041699
                                           -2.058538
          4
                -1.434239
                        -1.316622
                                  -1.001959
                                                    -1.044127
                                                              0.000000
                                                                       -0.121463
                                                                                -0.178068
        269
              0
                         -0.432420
                                  -1.001959
                                            -0.416502
                                                      0.077798
                                                              -1.207248
                                                                       -0.121463
                                                                                -1.397835
                 0.667266
        270
                 1.367768
                          1.335984
                                   0.078894
                                            1.225535
                                                      1.199722
                                                              -1.207248
                                                                       -1.354085
                                                                                -1.397835
                                            -0.416502
                                                      0.077798
                                                             -1.207248 -1.354085
                                                                               -2.617603
        271
              0
                 0.667266
                          0.451782
                                  -1.001959
        272
                 1.367768
                          0.451782
                                   0.078894
                                            1.225535
                                                      0.077798
                                                              0.000000 -0.121463 -0.178068
        273
                 1.367768
                          0.451782
                                   0.078894
                                            1.225535
                                                      1.199722
                                                              1.207248 -0.121463
                                                                                1.041699
       274 rows × 21 columns
```

```
In []: #导出data_new数据
data_new_.to_csv('data_new_.csv',index=False,sep=',')

In []:
```