**说明文档**

1、导入相关库：

import pandas as pd

import numpy as np

import os

import pandas as pd

2、读取三种传感器中的第一个json文件

data0 = pd.read\_json("./accelerometer/health/0.json")

data1 = pd.read\_json("./device\_motion/health/0.json")

data2 = pd.read\_json("./gyroscope/health/0.json")

3、将data2的列名修改利于区分

data2.columns = ["x1","y1","z1"]

4、将读取的josn文件拼接

l1 = pd.concat([data0,data1,data2],axis=1)

5、遍历读取所有文件，重复以上操作

for i in range(1,99):

data0 = pd.read\_json("./accelerometer/health/{}.json".format(i))

data1 = pd.read\_json("./device\_motion/health/{}.json".format(i))

data2 = pd.read\_json("./gyroscope/health/{}.json".format(i))

if(data2.shape[0] != 0):

data2.columns = ["x1","y1","z1"]

data4 = pd.concat([data0,data1,data2],axis=1)

l1 = pd.concat([l1,data4],axis=0)

6、设置目标列值为0，以便区分healthy

l1["target"] = 0

7、缺失值处理

l1 = l1.dropna()

8、读取所有文件名称

filePath = './accelerometer/anxiety/' #文件夹路径

fileList = os.listdir(filePath) #获取的数据

filePath1 = './device\_motion/anxiety/' #文件夹路径

fileList1 = os.listdir(filePath1) #获取的数据

filePath2 = './gyroscope/anxiety/' #文件夹路径

fileList2 = os.listdir(filePath2) #获取的数据

9、读取三种传感器中的第二个json文件，重复如上操作

data0 = pd.read\_json("./accelerometer/anxiety/0-10-14.json")

data1 = pd.read\_json("./device\_motion/anxiety/0-10-14.json")

data2 = pd.read\_json("./gyroscope/anxiety/0-10-14.json")

data2.columns = ["x1","y1","z1"]

l2 = pd.concat([data0,data1,data2],axis=1)

for i in range(1,len(filePath)):

data0 = pd.read\_json("./accelerometer/anxiety/" + fileList[i])

data1 = pd.read\_json("./device\_motion/anxiety/" + fileList1[i])

data2 = pd.read\_json("./gyroscope/anxiety/" + fileList2[i])

if(data2.shape[0] != 0):

data2.columns = ["x1","y1","z1"]

data4 = pd.concat([data0,data1,data2],axis=1)

l2 = pd.concat([l2,data4],axis=0)

10、将列值设置为1表示焦虑

l2["target"] = 1

l2 = l2.dropna()

11、将健康焦虑两类数据纵向合并

df = pd.concat([l1,l2],axis=0)

12、重复值处理

df = df.drop\_duplicates()

13、打乱所有数据，以便于建模

df = df.sample(frac=1.0)

14、打乱后的数据index也是乱的，用reset\_index重新加一列index，drop=True表示丢弃原有index一列

df = df.reset\_index(drop=True)