

Split_into_Classes

March 28, 2020

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[ ]: import numpy as np

import os
from csv import reader
import shutil
import glob
```

```
[ ]: test_list = []
alpha = 'a'
for i in range(0, 26):
    test_list.append(alpha)
    alpha = chr(ord(alpha) + 1)

test_list
```

```
[ ]: def load_file(filename):
    file = open(filename, "r")
    lines = reader(file)
    data = list(lines)

    array = []

    for row in range(len(data)):
        for rrow in range(len(data[row])):
            array.append(data[row][rrow])

    return array
```

```
[ ]: fnums = ['1', '2', '3', '4', '5', '6', '7', '8', '9', '10']

for x in range(10):

    train1_path = r'Training_'+fnums[x]+'.txt'
    train1_names_array = load_file(train1_path)

    test1_path = r'Testing_'+fnums[x]+'.txt'
    test1_names_array = load_file(test1_path)
```

```

z=0
while(z<len(train1_names_array)):
    l=train1_names_array[z].rsplit('/',1)
    print(l)
    m=l[0][1:].rsplit('/',1)
    print(m)
    print(l[0][1:])
    len(m[0])
    fromDirectory='split'+fnums[x]+'/train/'+l[0][1:]+'/'
    toDirectory='split'+fnums[x]+'/train'
    print(fromDirectory)
    print(toDirectory)

    if(len(m[0])<2):
        try:
            shutil.move(fromDirectory, toDirectory)
        except:
            pass
    else:
        r=m[0][1:].rsplit('/',0)
        s=r[0][1:]+'_'+m[1]
        try:
            os.makedirs(toDirectory+'/'+s)
        except FileNotFoundError:
            pass

        files = os.listdir(fromDirectory)

        for f in files:
            try:
                shutil.move(fromDirectory+'/'+f, toDirectory+'/'+s+'/')
            except FileNotFoundError:
                pass

    z+=1

z=0
while(z<len(test1_names_array)):
    l=test1_names_array[z].rsplit('/',1)
    print(l)
    m=l[0][1:].rsplit('/',1)
    print(m)
    print(l[0][1:])
    len(m[0])
    fromDirectory='split'+fnums[x]+'/test/'+l[0][1:]+'/'

```

```

toDirectory='split'+fnums[x]+' /test'
print(fromDirectory)
print(toDirectory)

if(len(m[0])<2):
    try:
        shutil.move(fromDirectory, toDirectory)
    except:
        pass
else:
    r=m[0][1:].rsplit('/',0)
    s=r[0][1:]+ '_' +m[1]
    try:
        os.makedirs(toDirectory+'/' +s)
    except FileExistsError:
        pass

    files = os.listdir(fromDirectory)

    for f in files:
        try:
            shutil.move(fromDirectory+'/' +f, toDirectory+'/' +s+'/')
        except FileNotFoundError:
            pass

z+=1

```

```

trainfolders='split'+fnums[x]+' /train/'
for names in test_list:
    try:
        shutil.rmtree(trainfolders+names)
    except:
        pass

```

```

trainfolders='split'+fnums[x]+' /test/'
for names in test_list:
    try:
        shutil.rmtree(trainfolders+names)
    except:
        pass

```

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