# driver.py

from f import Summarizer3

#import inspect

from Tkinter import \*

import os

import tkFont,tkFileDialog

import shutil

#argentina\_articles = ["argentina/argentina-guardian.txt", "argentina/argentina-nyt.txt"]

#china\_articles = ["china/china-cnn.txt", "china/china-nyt.txt"]

#climate\_articles = ["climate/climate-npr.txt", "climate/climate-nyt.txt"]

#VW\_articles = ["VW/VW-ars.txt", "VW/VW-nyt.txt"]

master = Tk()

master.title('Doc Summarizer')

compression\_prcnt=0

def copytree(src, dst, symlinks=False, ignore=None):

print("Please wait while uploading the files........")

if not os.path.exists(dst):

os.makedirs(dst)

for item in os.listdir(src):

s = os.path.join(src, item)

d = os.path.join(dst, item)

if os.path.isdir(s):

copytree(s, d, symlinks, ignore)

else:

if not os.path.exists(d) or os.stat(s).st\_mtime - os.stat(d).st\_mtime > 1:

shutil.copy2(s, d)

print("Uploading completed")

def browse\_file():

dirname = tkFileDialog.askdirectory(parent=master,initialdir="/",title='Please select Source directory')

#file = tkFileDialog.askopenfile(parent=master,mode='rb',title='Choose a Folder')

if dirname != None:

folder\_name=dirname.split("/")

print("Source= ",dirname,"Dest. =","docs/"+folder\_name[len(folder\_name)-1])

copytree(dirname,"docs/"+folder\_name[len(folder\_name)-1])

#data = file.read()

#print data

#file.close()

#print("I got %d bytes from this file." % len(data))

def show\_entry\_fields():

print("First Name: %s" % (e1.get()))

def set\_text(text):

#LB.delete(0,END)

LB.insert(END,text)

return

def setCompression():

global compression\_prcnt

compression\_prcnt=e1.get()

def execute\_python\_script():

count=0

global compression\_prcnt

compression\_prcnt=e1.get()

print("Please wait while summarizing the documents.....")

for root, dirs, files in os.walk('docs'):

for name in dirs:

dir\_name= os.path.join(root, name)

folder=[]

for root1, dirs1, files1 in os.walk(dir\_name):

for all\_files in files1:

folder.append(root1.split("docs\\")[1]+"\\"+all\_files)

magic = Summarizer3(folder,int(compression\_prcnt))

#print(magic.generate\_summaries())

Ackn="\n\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Summarizing "+name+" Articles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n"

set\_text(Ackn)

headlines,summary=magic.generate\_summaries()

set\_text(headlines)

set\_text(summary)

count += 1

print("Multiple Documents Summarization completed")

#master.attributes('-fullscreen', True)

master.geometry("700x550+50+50")

Label(master, text="").grid(row=0)

#Button(master, text='Compression', command=setCompression).grid(row=2, column=1, sticky=W, pady=0)

#Label(master, text="").grid(row=3)

Button(master, text='Execute', command=execute\_python\_script).grid(row=4, column=0, sticky=W, pady=0)

Label(master, text="").grid(column=1)

Button(master, text='Upload Documents', command=browse\_file).grid(row=4, column=1, sticky=W, pady=0)

e1 = Entry(master)

e1.pack()

e1.grid(row=2, column=0)

Label(master, text="Set Compression (Value in %) : ").grid(row=0)

Label(master, text="").grid(row=5)

Label(master, text="").grid(row=6)

Label(master, text="").grid(row=7)

#Button(master, text='Show', command=show\_entry\_fields).grid(row=7, column=1, sticky=W, pady=4)

dFont=tkFont.Font(family="Arial", size=16)

def killme():

master.quit()

master.destroy()

LB=Text(master, width=40, height=12, font=dFont)

LB.grid(row=9, column=0, sticky=W+N+S)

yscrollbar=Scrollbar(master, orient=VERTICAL, command=LB.yview)

yscrollbar.grid(row=9, column=1, sticky=N+S+E+W)

LB["yscrollcommand"]=yscrollbar.set

LB.update()

h=int(round(LB.winfo\_height()/LB["height"])), int(round(LB.winfo\_width()/LB["width"]))

def resize(event):

pixelX=master.winfo\_width()-yscrollbar.winfo\_width()

pixelY=master.winfo\_height()

LB["width"]=int(round(pixelX/h[1]))

LB["height"]=int(round(pixelY/h[0]))

master.bind("<Configure>", resize)

mainloop( )

#print(inspect.getmembers(magic, predicate=inspect.ismethod))

#print("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Summarizing Argentina Articles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n")

#magic = Summarizer(argentina\_articles)

#print(magic.generate\_summaries())

#print("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Summarizing China Articles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n")

#magic = Summarizer(china\_articles)

#print(magic.generate\_summaries())

#print("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Summarizing Climate Articles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n")

#magic = Summarizer(climate\_articles)

#print(magic.generate\_summaries())

#print("\n\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Summarizing VM Articles\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n")

#magic = Summarizer(VW\_articles)

#print(magic.generate\_summaries())