

AUTOMATIC EMAIL
SENDING FOR
BIRTHDAY

INTRODUCTION

The motivation behind my project is to showcase the capabilities of natural language processing and generation using Python. While I don't have personal experiences or friends, I can help you understand how to automate tasks like sending birthday wishes through code. The purpose is to demonstrate the practical applications of programming in everyday scenarios, making tasks more efficient and enjoyable.

TOOLS

The project uses Pandas for data handling, Datetime for managing dates, Smtplib for sending emails, and Fast2SMS for sending text messages. Together, these tools automate the process of sending personalized birthday wishes to friends using Python.

TEAM MEMBERS

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CODE

```
# import required packages
import pandas as pd
import datetime
import smtplib
import time
import requests
from win10toast import ToastNotifier

# your gmail credentials here
GMAIL_ID = 'your_email_here'
GMAIL_PWD = 'your_password_here'

# for desktop notification
toast = ToastNotifier()

# define a function for sending email
def sendEmail(to, sub, msg):
```

```
# connection to gmail
gmail_obj = smtplib.SMTP('smtp.gmail.com', 587)

# starting the session
gmail_obj.starttls()

# login using credentials
gmail_obj.login(GMAIL_ID, GMAIL_PWD)

# sending email
gmail_obj.sendmail(GMAIL_ID, to,
                   f"Subject : {sub}\n\n{msg}")

# quit the session
gmail_obj.quit()

print("Email sent to " + str(to) + " with subject "
      + str(sub) + " and message :" + str(msg))

toast.show_toast("Email Sent!" ,
                 f"{name} was sent e-mail",
                 threaded = True,
                 icon_path = None,
                 duration = 6)
```

```
headers = {
    'authorization': "API_KEY_HERE",
    'Content-Type': "application/x-www-form-urlencoded",
    'Cache-Control': "no-cache",
}

response_obj = requests.request("POST", url,
                                data = payload,
                                headers = headers)

print(response_obj.text)
print("SMS sent to " + str(to) + " with subject :" +
      str(sub) + " and message :" + str(msg))

toast.show_toast("SMS Sent!" ,
                 f"{name} was sent message",
                 threaded = True,
                 icon_path = None,
                 duration = 6)

while toast.notification_active():
    time.sleep(0.1)

# driver code
if __name__=="__main__":

    # read the excel sheet having all the details
    dataframe = pd.read_excel("excelsheet.xlsx")
```

```
for index,item in dataframe.iterrows():

    msg = "Many Many Happy Returns of the day dear " + str(item['NAME'])

    # stripping the birthday in excel
    # sheet as : DD-MM
    bday = item['Birthday'].strftime("%d-%m")

    # condition checking
    if (today == bday) and yearNow not in str(item['Year']):

        # calling the sendEmail function
        sendEmail(item['Email'], "Happy Birthday",
                  msg)

        # calling the sendsms function
        sendsms(item['Contact'], msg, item['NAME'],
                "Happy Birthday")

        writeInd.append(index)

for i in writeInd:

    yr = dataframe.loc[i,'Year']

    # this will record the years in which
    # email has been sent
    dataframe.loc[i,'Year'] = str(yr) + ',' + str(yearNow)

dataframe.to_excel('excelsheet.xlsx',
                  index = False)
```




Login



Username...



Password...

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OUTPUT:



HAPPY BIRTHDAY
MAX

Thank
you!