

```
In [1]: 1 from pytesseract import pytesseract
2 import os
3 import glob
4 import re
5 import pandas as pd
6 class OCR():
7     def pan(self):
8         data = glob.glob(r"C:\Users\User\Desktop\practice\117_Swapnil Badgujar_Mini project\PAN\*" + "*.jpeg")
9         Pan_Data = {"PAN_IMAGE":[], "Pan_No":[], "Pan_Name":[], "Pan_DOB":[]}
10        for pan in data:
11            pytesseract.tesseract_cmd = r'C:\python\tesseract.exe'
12            text = pytesseract.image_to_string(pan)
13            text = re.sub("INCOME|TAX|DEPARTMENT|Signature|GOVT|OF|INDIA|Permanent|Account|Number|W", " ",text)
14            Pan_Data["PAN_IMAGE"].append((pan.split("\\")[-1]).replace(".jpeg", ""))
15            Pan_Data["Pan_No"].extend(re.findall("[A-Z]{5}[0-9]{4}[A-Z]{1}",text))
16            Pan_Data["Pan_DOB"].extend(re.findall("\d{2}[/\s]\d{2}[/\s]\d{4}",text))
17            Pan_Data["Pan_Name"].extend(re.findall("[A-Z]{1,10}\s{1,2}[A-Z]{1,10}\s{1,2}[A-Z]{1,15}",text))
18        df = pd.DataFrame({ key:pd.Series(value) for key, value in Pan_Data.items() })
19        df.to_csv('PAN_data2.csv',index = False)
20        print(pd.read_csv("PAN_data2.csv"))
21    def Aadhar(self):
22        data = glob.glob(r"C:\Users\User\Desktop\practice\117_Swapnil Badgujar_Mini project\AADHAR\*" + "*.jpeg")
23        Aadhar_Data = {"Aadhar_Image":[], "Aadhar_No":[], "Aadhar_DOB":[]}
24        for Aadhar in data:
25            pytesseract.tesseract_cmd = r'C:\python\tesseract.exe'
26            text = pytesseract.image_to_string(Aadhar)
27            text = re.sub("Name|Female|FEMAIL|MALE|Male|Gender|\n", " ",text)
28            Aadhar_Data["Aadhar_Image"].append((Aadhar.split("\\")[-1]).replace(".jpeg", ""))
29            Aadhar_Data["Aadhar_No"].extend(re.findall("\d{4}\s\d{4}\s\d{4}",text))
30            Aadhar_Data["Aadhar_DOB"].extend(re.findall("\d{2}[/\s-]\d{2}[/\s-]\d{4}",text))
31            #Aadhar_Data["Aadhar_Name"].extend(re.findall("[A-Za-z]{3,10}\s[A-Za-z]{0,10}\s[A-Za-z]{0,10}",text))
32        df = pd.DataFrame({ key:pd.Series(value) for key, value in Aadhar_Data.items() })
33        df.to_csv('Aadhar_Data.csv',index = False)
34        print(pd.read_csv("Aadhar_Data.csv"))
35
36 a = OCR()
37 a.pan()
38 a.Aadhar()
```

	PAN_IMAGE	Pan_No	Pan_Name	Pan_DOB
0	pan1	BNZPM2501F	D MANIKANDAN DURAISAMY	16 07 1986
1	pan10	AQSPL9772C	KUSUM LATA DHANI	17 10 1992
2	pan11	GQBPK8700C	GA AL AMAAB	04 05 1997
3	pan2	EJAPS0276M	MONIKA MAHADEV SHINDE	31 10 1992
4	pan3	BJDPP6011M	F PREMSANKAR VANAMAMALAIPERU	09 07 1986
5	pan4	ANRPM2537J	PRAMOD KUMAR MAHTO	03 04 1982
6	pan5	AQNPM7970Q	AASHISH MISHRA MAHESH	17 09 1984
7	pan6	ANRPM2537J	PRAMOD KUMAR MAHTO	03 04 1982
8	pan7	BLQPK3045P	MANOJ KUMAR NARURAM	01 12 1988
9	pan8	DUTPS3077K	SMITA PRAKASH SRIVASTAVA	05 02 1984
10	pan9	ANUPT5774F	PRAVESH PRASAD SINHA	10 11 1992
11	NaN	NaN	MOHAMMD TA EEQ	NaN

	Aadhar_Image	Aadhar_No	Aadhar_DOB
0	Aadhar1	3425 0653 1151	28/05/2000
1	Aadhar10	6536 4848 7185	19/07/1995
2	Aadhar11	2312 5823 4114	25/08/1995
3	Aadhar12	5939 7553 9390	22/06/1983
4	Aadhar13	7109 5388 5107	23/10/2011
5	Aadhar2	8158 4542 1351	05-06-1965
6	Aadhar3	8158 4542 1351	05-06-1965
7	Aadhar4	5630 0841 0574	06/08/1999
8	Aadhar5	3425 0653 1151	28/05/2000
9	Aadhar6	2879 9185 1180	27/12 1088
10	Aadhar8	2114 5270 9955	11/08/1993
11	Aadhar9	2094 7051 9541	01/01/1959

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In [2]: 1 from pytesseract import pytesseract
2 import os
3 import glob
4 import re
5 class OCR():
6     def pan(self):
7         data = glob.glob(r"C:\Users\User\Desktop\practice\117_Swapnil Badgujar_Mini project\PAN\*" + "*.jpeg")
8         for pan in data:
9             pytesseract.tesseract_cmd = r'C:\python\tesseract.exe'
10            text = pytesseract.image_to_string(pan)
11            text = re.sub("INCOME|TAX|DEPARTMENT|Signature|GOVT|OF|INDIA|Permanent|Account|Number|\W", " ", text)
12            Pan_Data = {(pan.split("\\")[-1]).replace(".jpg", "") : {"PAN_No": [], "PAN_DOB": [], "PAN_Name": []}}
13            Pan_Data[(pan.split("\\")[-1]).replace(".jpg", "")][ "PAN_No"].append(re.findall("[A-Z]{5}[0-9]{4}[A-Z]{1}"))
14            Pan_Data[(pan.split("\\")[-1]).replace(".jpg", "")][ "PAN_DOB"].append(re.findall("\d{2}[/\s]\d{2}[/\s]\d{2}"))
15            Pan_Data[(pan.split("\\")[-1]).replace(".jpg", "")][ "PAN_Name"].append(re.findall("[A-Z]{1,10}\s{1,2}[A-Z]{1,10}"))
16            print(Pan_Data)
17        def Aadhar(self):
18            data = glob.glob(r"C:\Users\User\Desktop\practice\117_Swapnil Badgujar_Mini project\AADHAR\*" + "*.jpeg")
19            for Aadhar in data:
20                pytesseract.tesseract_cmd = r'C:\python\tesseract.exe'
21                text = pytesseract.image_to_string(Aadhar)
22                text = re.sub("Name|Female|FEMAIL|MALE|Male|Gender|Government of India|\n", " ", text)
23                Aadhar_data = {(Aadhar.split("\\")[-1]).replace(".jpeg", "") : {"Aadhar_No": [], "Aadhar_DOB": [], "Aadhar_Name": []}}
24                Aadhar_data[(Aadhar.split("\\")[-1]).replace(".jpeg", "")][ "Aadhar_No"].append(re.findall("\d{4}\s\d{4}\s\d{4}"))
25                Aadhar_data[(Aadhar.split("\\")[-1]).replace(".jpeg", "")][ "Aadhar_DOB"].append(re.findall("\d{2}[/\s-]\d{2}[/\s-]\d{2}"))
26                #Aadhar_data[(Aadhar.split("\\")[-1]).replace(".jpeg", "")][ "Aadhar_Name"].append(re.findall("[A-Za-z]{3,10}"))
27                print(Aadhar_data)
28
29 OCR().pan()
30 OCR().Aadhar()

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{'Aadhar12': {'Aadhar_No': [['5939 7553 9390']], 'Aadhar_DOB': [['22/06/1983']], 'Aadhar_Name': []}}
{'Aadhar13': {'Aadhar_No': [['7109 5388 5107']], 'Aadhar_DOB': [['23/10/2011']], 'Aadhar_Name': []}}
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{'Aadhar3': {'Aadhar_No': [['8158 4542 1351']], 'Aadhar_DOB': [['05-06-1965']], 'Aadhar_Name': []}}
{'Aadhar4': {'Aadhar_No': [['5630 0841 0574']], 'Aadhar_DOB': [['06/08/1999']], 'Aadhar_Name': []}}
{'Aadhar5': {'Aadhar_No': [['3425 0653 1151']], 'Aadhar_DOB': [['28/05/2000']], 'Aadhar_Name': []}}
{'Aadhar6': {'Aadhar_No': [['2879 9185 1180']], 'Aadhar_DOB': [['27/12 1088']], 'Aadhar_Name': []}}
{'Aadhar8': {'Aadhar_No': [['2114 5270 9955']], 'Aadhar_DOB': [['11/08/1993']], 'Aadhar_Name': []}}
{'Aadhar9': {'Aadhar_No': [['2094 7051 9541']], 'Aadhar_DOB': [['01/01/1959']], 'Aadhar_Name': []}}

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