

In [1]: `pip install azure-cognitiveservices-vision-computervision`

```
Requirement already satisfied: azure-cognitiveservices-vision-computervision in
c:\users\user\anaconda3\lib\site-packages (0.9.1)
Requirement already satisfied: msrest>=0.6.21 in c:\users\user\anaconda3\lib\site-
packages (from azure-cognitiveservices-vision-computervision) (0.7.1)
Requirement already satisfied: azure-common~=1.1 in c:\users\user\anaconda3\lib\s
ite-packages (from azure-cognitiveservices-vision-computervision) (1.1.28)
Requirement already satisfied: azure-core>=1.24.0 in c:\users\user\anaconda3\lib
\site-packages (from msrest>=0.6.21->azure-cognitiveservices-vision-computervisio
n) (1.32.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\user\anaconda3\lib
\site-packages (from msrest>=0.6.21->azure-cognitiveservices-vision-computervisio
n) (2024.7.4)
Requirement already satisfied: isodate>=0.6.0 in c:\users\user\anaconda3\lib\site-
packages (from msrest>=0.6.21->azure-cognitiveservices-vision-computervision)
(0.7.2)
Requirement already satisfied: requests-oauthlib>=0.5.0 in c:\users\user\anaconda
3\lib\site-packages (from msrest>=0.6.21->azure-cognitiveservices-vision-computer
vision) (2.0.0)
Requirement already satisfied: requests~=2.16 in c:\users\user\anaconda3\lib\site-
packages (from msrest>=0.6.21->azure-cognitiveservices-vision-computervision)
(2.32.2)
Requirement already satisfied: six>=1.11.0 in c:\users\user\anaconda3\lib\site-pa
ckages (from azure-core>=1.24.0->msrest>=0.6.21->azure-cognitiveservices-vision-c
omputervision) (1.16.0)
Requirement already satisfied: typing-extensions>=4.6.0 in c:\users\user\anaconda
3\lib\site-packages (from azure-core>=1.24.0->msrest>=0.6.21->azure-cognitiveserv
ices-vision-computervision) (4.11.0)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\user\anaconda
3\lib\site-packages (from requests~=2.16->msrest>=0.6.21->azure-cognitiveservices-
vision-computervision) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\user\anaconda3\lib\site-p
ackages (from requests~=2.16->msrest>=0.6.21->azure-cognitiveservices-vision-comp
utervision) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\user\anaconda3\lib
\site-packages (from requests~=2.16->msrest>=0.6.21->azure-cognitiveservices-visi
on-computervision) (2.2.2)
Requirement already satisfied: oauthlib>=3.0.0 in c:\users\user\anaconda3\lib\sit
e-packages (from requests-oauthlib>=0.5.0->msrest>=0.6.21->azure-cognitiveservice
s-vision-computervision) (3.2.2)
Note: you may need to restart the kernel to use updated packages.
```

In [2]: `import os`  
`import sys`

In [3]: `from azure.cognitiveservices.vision.computervision import ComputerVisionClient`  
`from azure.cognitiveservices.vision.computervision.models import VisualFeatureTy`  
`from msrest.authentication import CognitiveServicesCredentials`

```
region = "eastus"
key = 'FmtUeiIPZomjUBn3b9TTduJ00XulakKvjYNugke4J8R8ldk1FdYrJQQJ99ALACYeBjFXJ3w3A'

credentials = CognitiveServicesCredentials(key)
client = ComputerVisionClient(
    endpoint="https://aayucomputervision.cognitiveservices.azure.com/",
    credentials=credentials
)
```

```
In [33]: from azure.cognitiveservices.vision.computervision.models import OperationStatus
url = r"C:\Users\User\OneDrive\Pictures\Adhar card1.jpg"
# Specify the full path to the file
filename = r"C:\Users\User\OneDrive\Pictures\Adhar card1.jpg"

raw = True
numberOfCharsInOperationId = 36

type = "filename"
if type == "url":
    rawHttpResponse = client.read(url, language="en", raw=True)
else:
    with open(filename, "rb") as read_image:
        rawHttpResponse = client.read_in_stream(read_image, language="en", raw=T
```

```
In [35]: import time
# Get ID from returned headers
operationLocation = rawHttpResponse.headers["Operation-Location"]
idLocation = len(operationLocation) - numberOfCharsInOperationId
operationId = operationLocation[idLocation:]

# SDK call
while True:
    # get_read_result() is asynchronous, need to check when it finishes
    result = client.get_read_result(operationId)
    if result.status not in ['notStarted', 'running']:
        break
    time.sleep(1)
```

```
In [37]: result.status
```

```
Out[37]: <OperationStatusCodes.succeeded: 'succeeded'>
```

```
In [41]: from PIL import Image, ImageDraw
image=Image.open(r"C:\Users\User\OneDrive\Pictures\Adhar card1.jpg")
image
```

```
Out[41]:
```



```
In [45]: if result.status == OperationStatusCodes.succeeded:
        for line in result.analyze_result.read_results[0].lines:
            print(line.text)
```

```
-
Government of India
BITER
Ayushi Patil
HF PA/ DOB : 25/01/2002
HIGCT / Female
Issue Date : 08/06/2013
2340 9273 1599
```

```
In [49]: from azure.cognitiveservices.vision.computervision.models import OperationStatus

url = r"C:\Users\User\Downloads\Pan card.jpg"
filename = r"C:\Users\User\Downloads\Pan card.jpg"
raw = True
numberOfCharsInOperationId = 36

type = "filename"
if type == "url":
    rawHttpResponse = client.read(url, language="en", raw=True)
else:
    read_image = open(filename, "rb")
    rawHttpResponse = client.read_in_stream(read_image, language="en", raw=True)
```

```
In [51]: import time
        # Get ID from returned headers
        operationLocation = rawHttpResponse.headers["Operation-Location"]
        idLocation = len(operationLocation) - numberOfCharsInOperationId
        operationId = operationLocation[idLocation:]

        # SDK call
        while True:
            # get_read_result() is asynchronous, need to check when it finishes
            result = client.get_read_result(operationId)
            if result.status not in ['notStarted', 'running']:
                break
            time.sleep(1)
```

```
In [53]: result.status
```

```
Out[53]: <OperationStatusCodes.succeeded: 'succeeded'>
```

```
In [55]: from PIL import Image, ImageDraw
        image=Image.open(r"C:\Users\User\Downloads\Pan card.jpg")
        image
```

Out[55]:



```
In [57]: # Get data
if result.status == OperationStatusCodes.succeeded:
    for line in result.analyze_result.read_results[0].lines:
        print(line.text)
        #print(line.bounding_box)
```

```
INCOME TAX DEPARTMENT
GOVT. OF INDIA
Permanent Account Number Card
GGWPP1056F
qTH/Name
AYUSHI PATIL
RIAT AT HTH ! Father's Name
KIRTILAL PATIL
TH ail Aring / Date of Birth
Ayushi
25/01/2002
SKIT8 / Signature
13839
```

In [ ]: