工业识别V1.0.0-算法接口

请求URL

demo:

POST /devicesrecognize

V1.0.0:

POST /iot/device/recognize/image

参数列表

返回参数 名称	类型	是否必须	说明 ************************************
tags	string string	否	标签信息
imgName	string	若传入url参数,此不传	比参数可图片名,以后端传入的为主
image	string	和url二选一	图像数据,base64编码,要求base64编码后大小不超完4M,最短边至少50px,最长边最大4096px,支持jpg/png/bmp格式。 注意:图片需要base64编码、去编码头后再进行urlencode 。
url	string	和image二选一	图片完整URL,URL长度不超过1024字节,URL对应的 片base64编码后大小不超过4M,最短边至少50px,最 边最大4096px,支持jpg/png/bmp格式,当image字解

请求响应

返回参数名称	类型	是否 必须	说明		
serviceVersion	strin g	是 8245	识别服务版本号		
timestamp	strin g	是 8245	调用服务时的时间戳,	使用python的int(time.time()产生

imgNa				strin g	是	图片名,以后端传入的为主	
status			strin g	是加	状态码	班師 82.45	
message				strin g	是 姚随 8245	状态码信息说明	姚随 8245
result	姚随 8245		郊长田	dict	是	返回结果相关	
· 8245	imgScore			float 32	是	图像质量评估得分	姚随 82.45
	recognizeInfo			list	是	识别结果详细内容	姚随 8245
	姚斯 82.45	device	Crop ®	base 64	是 銀額 82.45	检测到的设备/零件目标截取图	姚随 8245
	姚随 8245	box		list	是	检测到的设备/零件目标相对于原图的坐标	
		姚随 824	ੇ left	int	是為	目标框左上角的×坐标	姚阳 82.45
	姚随 8245		top	int	是	目标框左上角的y坐标	
			right	int	是	目标框右下角的x坐标	
	姚随 8245		bott om	int	是	目标框右下角的y坐标	
	姚随 82.45	device		list	是	识别设备/零件目标ID的top2结果或者阈值大于	排作图 8747
	WEET DY	姚阳 82/	devi ceTy	int	是	设备目标类型,设备整体deviceType=0(如 deviceId=0000A);设备零件deviceType=1(如	姚随 8245
	姚随 8245		pe			deviceId=0000A_0、0000A_1,0000A_3等等)	
	地际 6 8245		devi celd	strin	是	识别到的设备/零件目标的所属ID	
	13FAIR A.		scor	float	是245	识别到的设备/零件目标的置信度得分	姚随 8245
	城商 8245		е	32		姚越 8245 姚越 8245	

请求示例

```
3 import requests
 4 import json
 5 import argparse
 6
 7 detail_template = {
       "tags": "1.0.0",
 8
       "imgName": "2024-05-24_14:38:50.jpg",
 9
10
       "image":
   "/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAEBAQEBAQEBAQEBAQEBAQEBAQEBAQE.....",
       "url": "https://iot-bucket-2024.obs.cn-south-
11
   1.myhuaweicloud.com:443/iot/436f1fd9-ea3d-43f8-be8f-af08961a3021.jpeg",
12 }
13
14
15 class RecognizeTest(object):
16
   def __init__(self, base_url):
           self.base_url = base_url
17
18
       def device_recognize(self, data):
19
           url = self.base_url + '/devicesrecognize'
20
           header = {"Content-Type": "application/json"}
21
22
           params = data
           response = requests.post(data=json.dumps(params), url=url,
23
   headers=header)
           try:
24
               print("final result: ", response.json())
25
           except Exception as e:
26
               print("Error", e)
27
           print(response.json())
28
           return response.json()
29
30
31
32 if __name__ == '__main__':
       parser = argparse.ArgumentParser()
33
34
       url = "http://192.168.101.120:8080"
       parser.add_argument('--url', default=url, required=False, help='')
35
       parser.add_argument('--detail_template', default=detail_template,
36
   required=False, help='')
       opt = parser.parse_args()
37
       recognize_test = RecognizeTest(opt.url)
38
       recognize_test.device_recognize(detail_template)
39
```

```
curl ==location '192.168.101.120:8080/iot/d
==header 'Content=Type: application/json' \
==data '{
    "tags": "1.0.0",
    "imgName": "XXXXXXXXXXXXXXXijpg",
    "url":
"https://iot=bucket=2024.obs.cn=south=1.m
65b61f1c9.jpeg",
    "image":""
}'
```

cURL.txt

```
1 # -*- coding:utf-8 -*-
 2 from flask import Flask, request, Response
 3 import json
 4
 5 app = Flask(__name__)
 6
 8
 9
10
11 def predict_image(img_content):
        111111
12
        识别主函数
13
        :param img_content:
14
        :return:
15
        11 11 11
16
       data = {
17
            "serviceVersion": "v1.0.0",
18
19
            "timestamp": "1242536363",
            "imgName": "2024-05-24_14:38:50.jpg",
20
            "status": "A0200",
21
            "message": "runSuccess",
22
            "result": {
23
                "imgScore": 0.6,
24
```

```
25
               "recognizeInfo": [{'deviceCrop':
   "/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAEBAQEBAQEBAQEBAQEBAQEBAQEBAQE.....",
                                   'box': [{"left": 172,
26
                                           "top": 402,
27
                                           "right": 588,
28
                                           "bottom": 928}],
29
                                   "deviceList": [{'deviceId': '10001', 'score':
30
   0.87, "deviceType": 0},
31
                                                   {'deviceId': '10002', 'score':
   0.76, "deviceType": 0}]},
                                  {'deviceCrop':
32
   "/9j/4AAQSkZJRgABAQAAAQABAAD/2wBDAAEBAQEBAQEBAQEBAQEBAQEBAQEBAQE.....",
                                   'box': {"left": 523,
33
                                           "top": 161,
34
                                           "right": 994,
35
36
                                           "bottom": 919},
                                   "deviceList": [{'deviceId': '10003_0', 'score':
37
   0.91, "deviceType": 1},
38
                                                    {'deviceId': '10004_0',
   'score': 0.88, "deviceType": 1}]}
39
40
41
42
       return data
43
44
45 @app.route('/devicesrecognize', methods=['POST'])
46 def devices recognize():
       111111
47
       识别入口
48
49
       :return:
       111111
50
       request_data = request.get_json()
51
52
       image_input = request_data["image"]
53
       predict_info = predict_image(image_input)
54
       print(predict_info)
       return Response(json.dumps(predict_info))
55
56
57
58 if __name__ == '__main__':
       app.run(host='0.0.0.0', port=8080, processes=True, debug=False)
59
```

return.txt