

Azure 기반의 이미지 분석 기술 이해하기

MSA 여지빈

LINKED IN: Jibin YEO

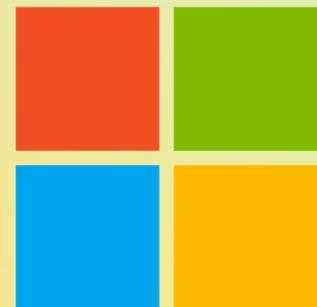
GitHub: @jikong



세션 목차

1. Pixel to Data
2. 3 Key Question
3. Azure Vision API
4. Demo

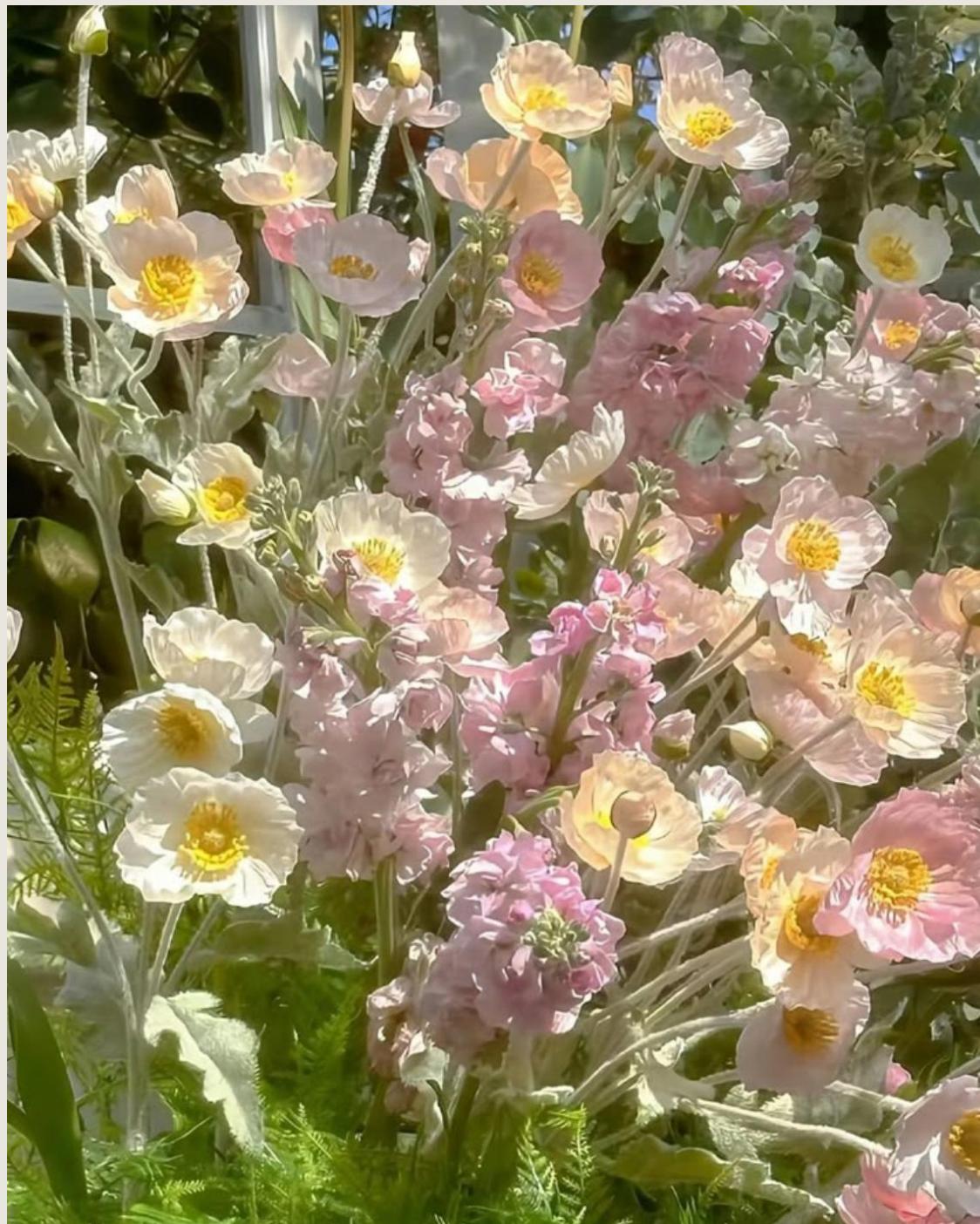
후원사 소개



Microsoft



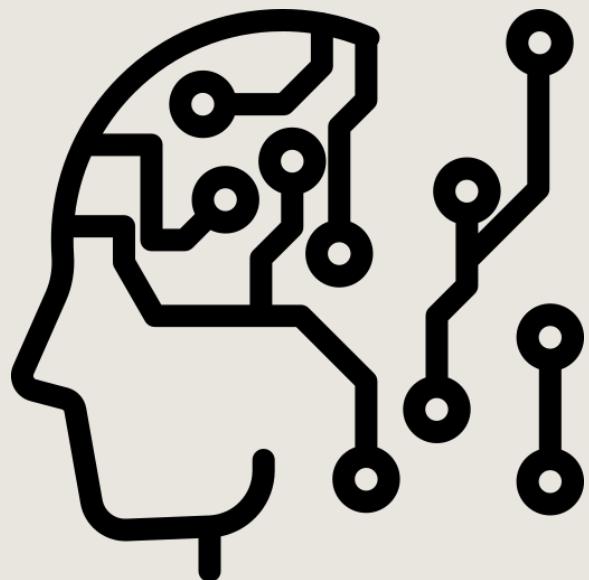
oceanLightAI



111011111111
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1000000110110001010001
0001001100001010010001
111011110100 00000111111101110000 111010100111
11000001010001011001001111111100201110010010000001010
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1110011001000111 000 1010001101101111
111111110010101 110 00111111100110
000011111111110 000 001011000011110
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001
1010
111
1001

어디에 있어요??

이것 뭐예요??



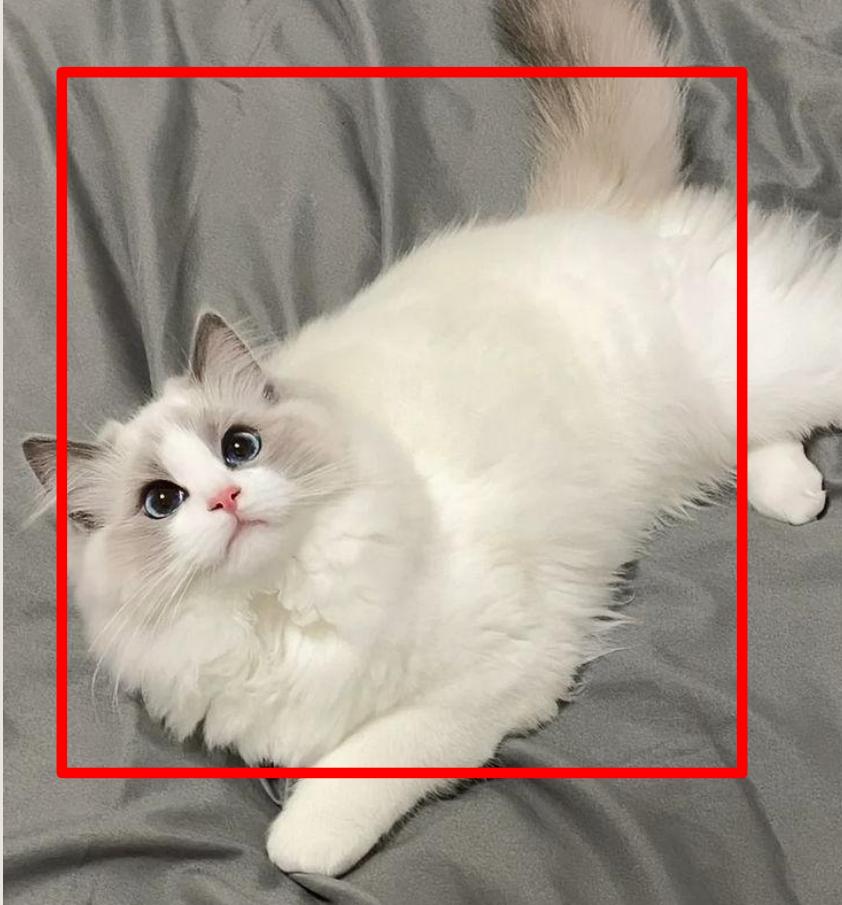
무슨일 이에요??

첫번째 질문: 이게 뭐야?(Tags)



Tag: “고양이 ”

두번째 질문: 어디 있어?(Object)



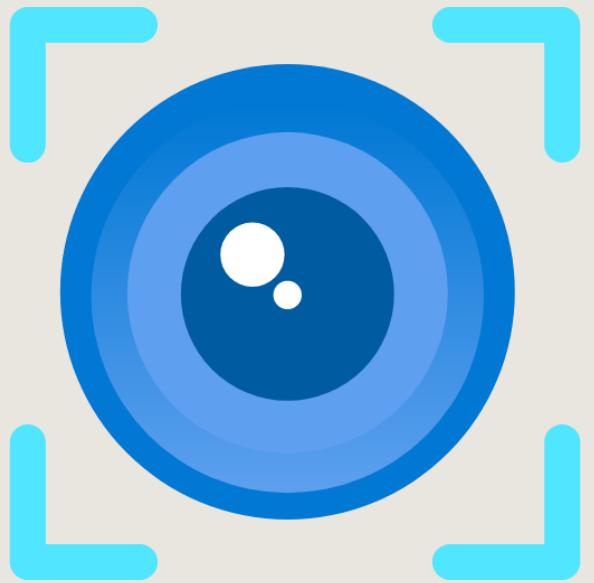
X: 231, Y: 459

세번째 질문: 무슨 상황이야?(Caption)



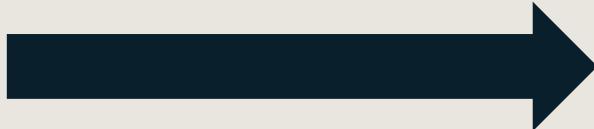
“이불 위에 누워있는 고양이 ”





Azure Computer Vision

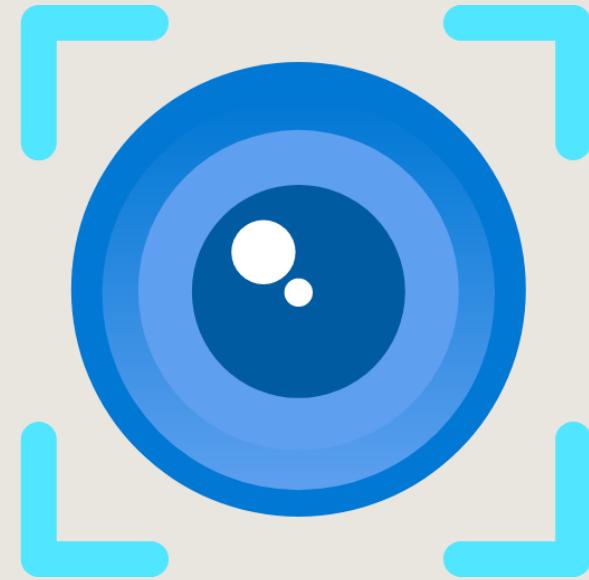
API 호출



사용자



“고양이가 귀엽다~”



```
{ "tag": "cat" }  
{"box": [x,y] }
```

https://bit.ly/vision_studio



```
result = client.analyze_from_url  
    image_url=image_url,  
    visual_features=[  
        VisualFeatures.CAPTION,  
        VisualFeatures.TAGS,  
        VisualFeatures.OBJECTS  
    ],  
    gender_neutral_caption=True  
)
```

“무슨상황?”
“뭐야?”
“어디에?”

```
[
```

```
  "image_url": "https://img.khan.co.kr/news/  
  "caption": {  
    "text": "a person holding a book",  
    "confidence": 0.902696430683136  
  },
```

```
"tags": [
  {
    "text": "human face",
    "confidence": 0.9953669905662537
  },
  {
    "text": "person",
    "confidence": 0.984207272529602
  }
]
```

```
"objects": [  
  {  
    "name": "Glasses",  
    "confidence": 0.588,  
    "bounding_box": {  
      "x": 421,  
      "y": 187,  
      "width": 233,  
      "height": 70  
    }  
  }]
```



이미지 검색 데모

검색어 입력

glasses

검색 결과 스코어: 3



a person holding a book



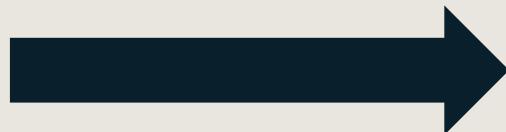
“다 같은 고양이??”

https://bit.ly/Custom_Vision



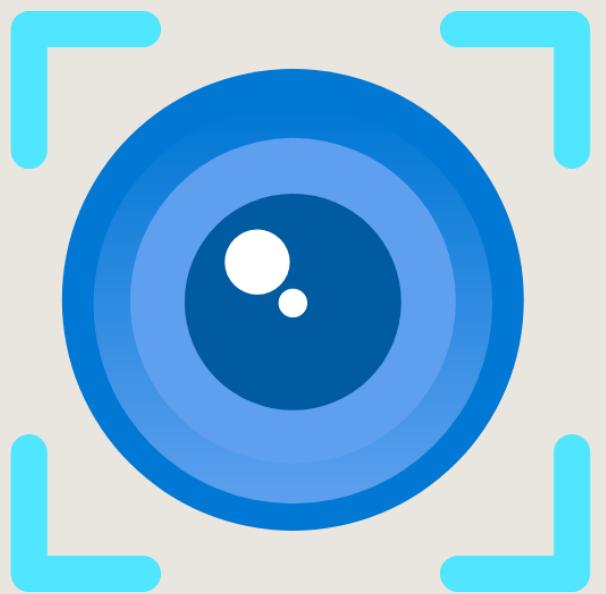


“이미지”



“데이터”

https://bit.ly/Azure_vision





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