



Azure 기반의 이미지 분석 기술 이해하기

여지빈

LINKED IN: [jibinyeo](#)

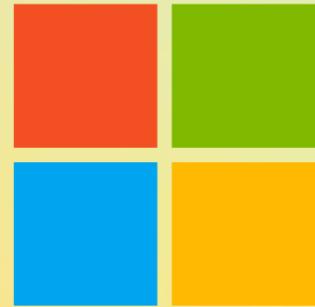
Github: [@jikong](#)



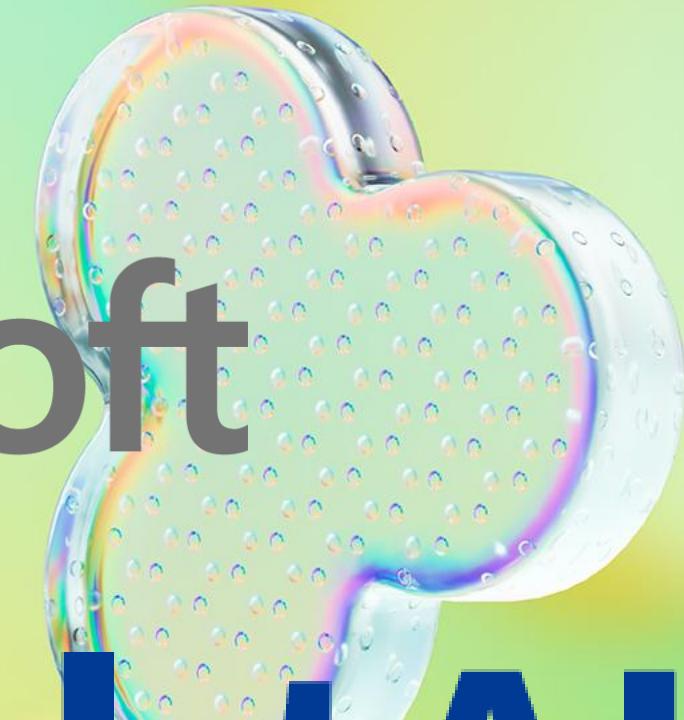
세션 목차

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

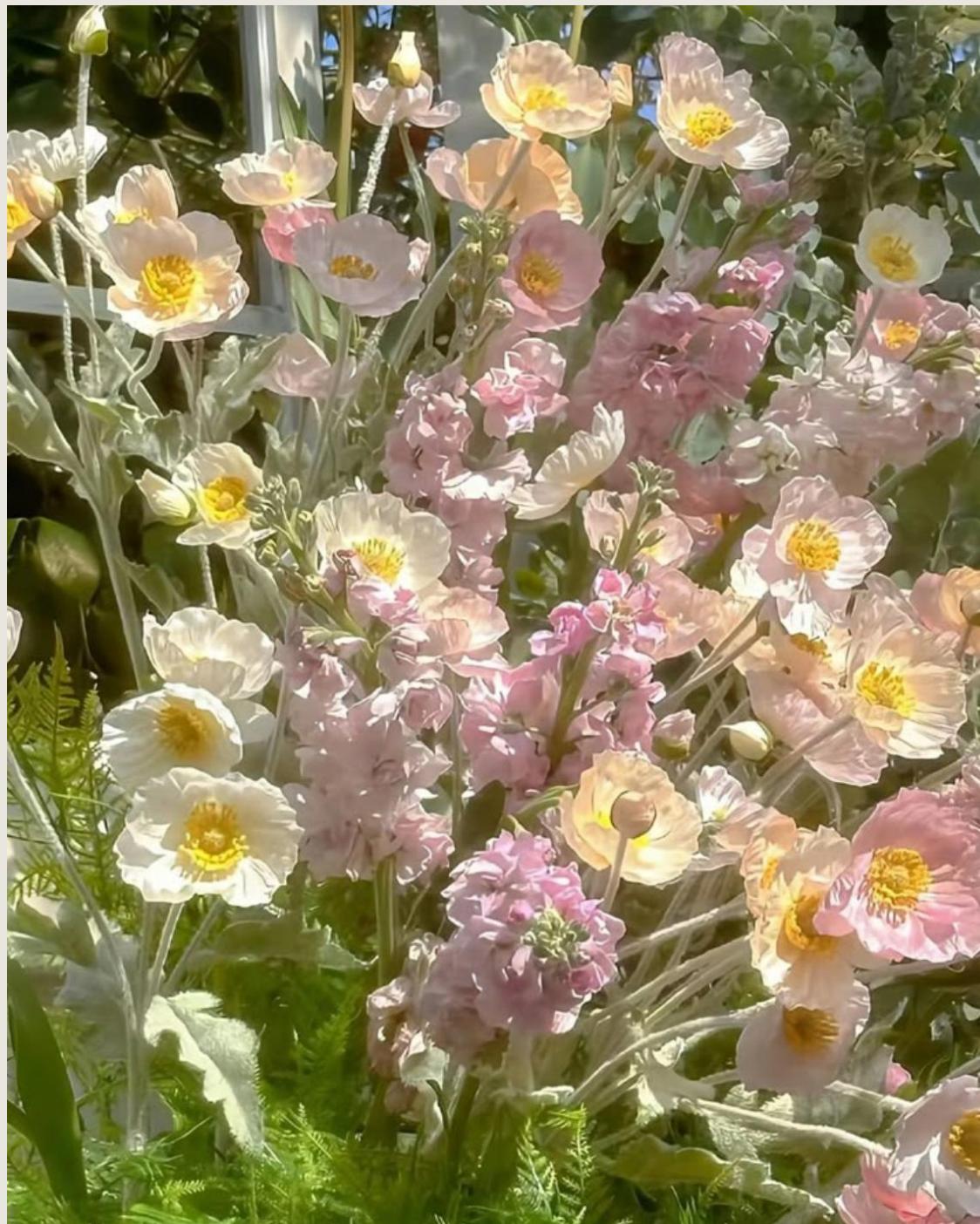
후원사 소개



Microsoft



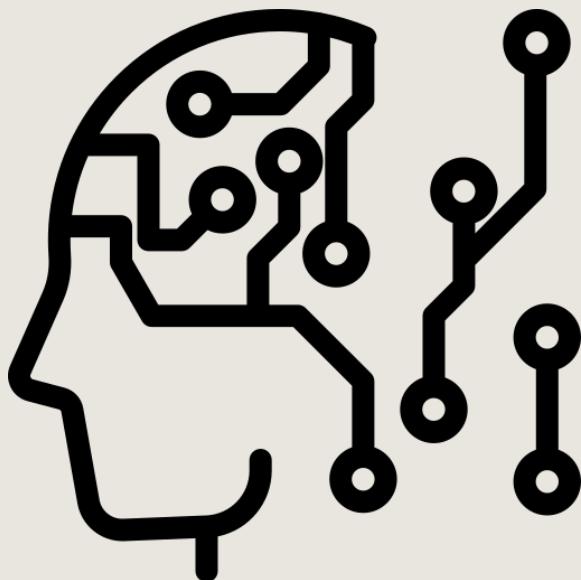
oceanLightAI



111011111111
0111101000100000111
1000000110110001010001
0001001100001010010001
111011110100 00000111111101110000 111010100111
11000001010001011001001111111100201110010010000001010
010001000011111010101001111111110011010111010001100000101
001000101000000110100111111111111110001100000111010001001
00001011110100001111111111111111110010010111110001011
00010010010100110100111111111111111100011111000000011101
101000010000111110011111111111111111000111110111101111
0101010110011100000111111111111100100100010101111
11110011001010000111111111111100100100011011010
01010010011001111010011120010011101011110001010
0001011000010111101110011101101101010100001110001
0011011010101000110100111100111000100001001011001
010100001001001111101010001101001010100000010010001
001011011110010001001 011 101011001010110100101
011001011000110011 101 010100001020101
001001100111 000 1110101111
101
010
100
01110010111100111 111 10110110100011111
1110011001000111 000 1010001101101111
111111110010101 110 00111111100110
000011111111110 000 001011000011110
11111111000111 101 10001001111111
010001100001100111001111110
001
1010
111
1001

어디에 있어요??

이것 뭐예요??



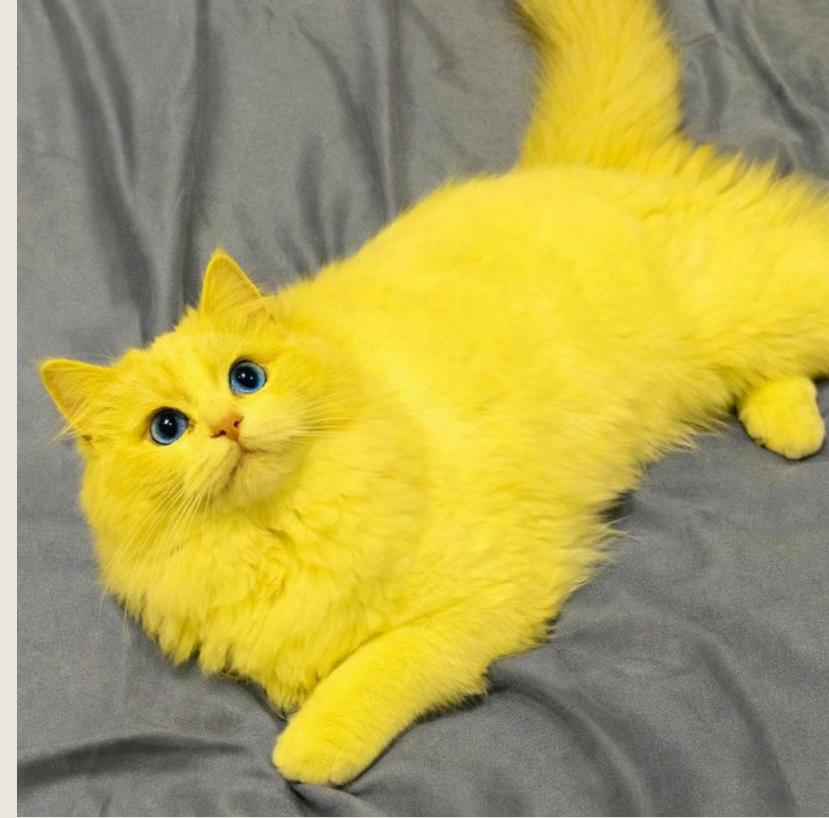
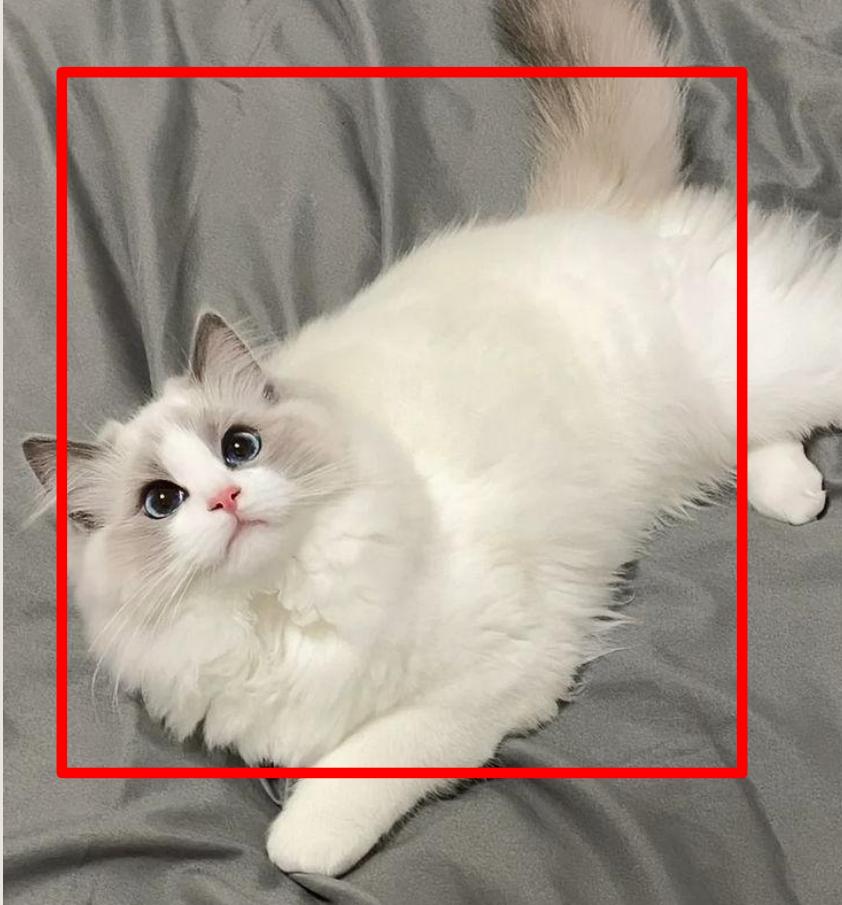
무슨일 이에요??

첫번째 질문: 이게 뭐야?(Tags)



Tag: “고양이 ”

두번째 질문: 어디 있어?(Object)



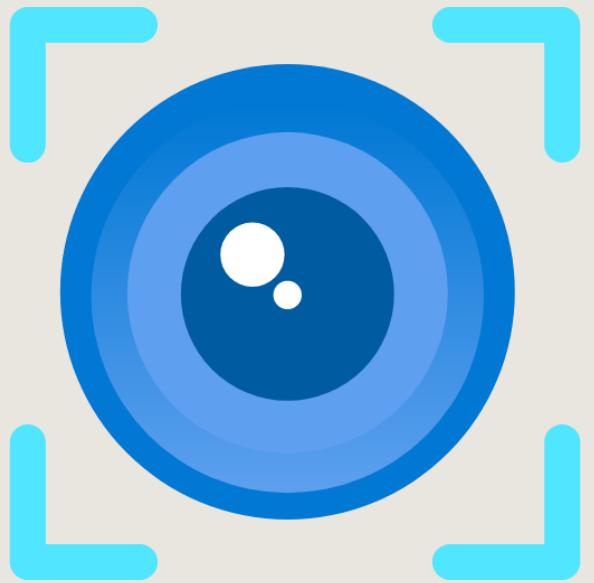
X: 231, Y: 459

세번째 질문: 무슨 상황이야?(Caption)



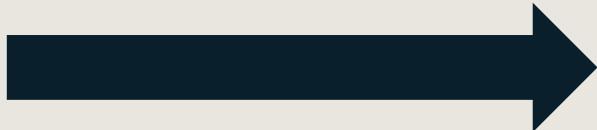
“이불 위에 누워있는 고양이 ”





Azure Computer Vision

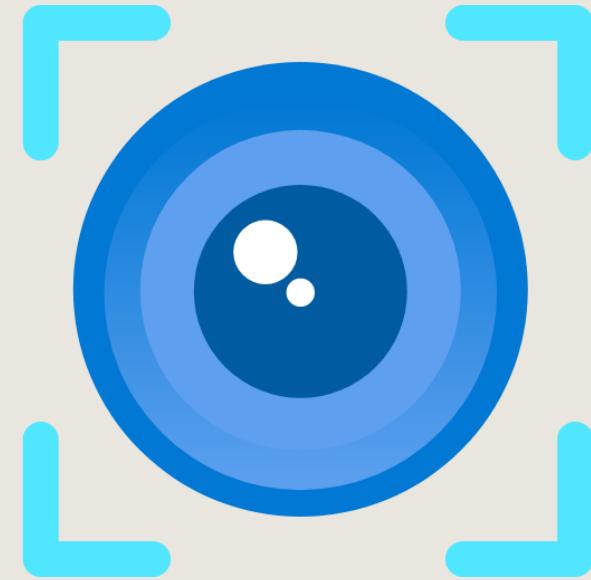
API 호출



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



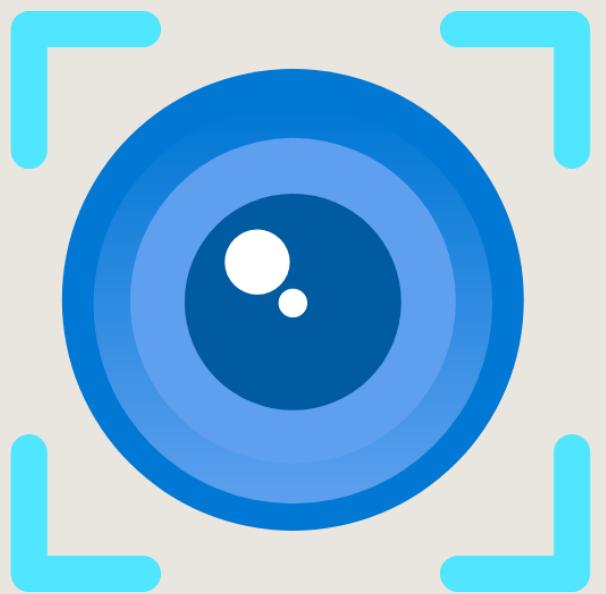


“이미지”



“데이터”

https://bit.ly/Azure_vision



Azure 기반의 이미지 분석 기술 이해하기

여지빈

LINKED IN: [jibinyeo](#)

GitHub: [@jikong](#)

