



Azure 기반의 이미지 분석 기술 이해하기

여지빈

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세션 목차

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

후원사 소개



Microsoft



OceanLightAI

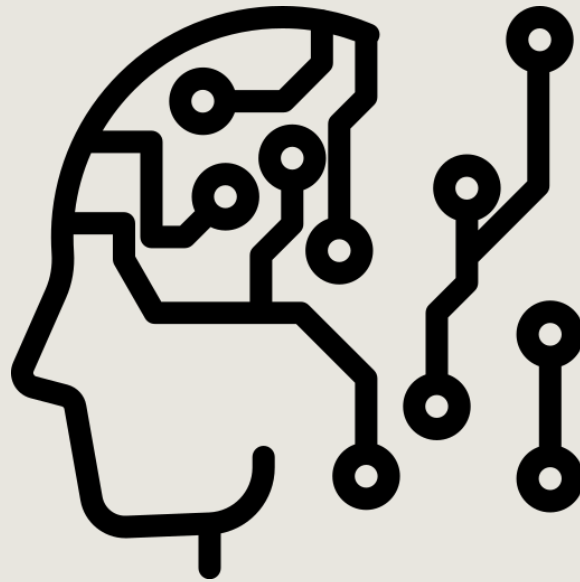




111011111111
0111101000100000111
1000000110110001010001
0001001100001010010001
111011110100 0000011111111011100000 111010100111
110000010100001011001001111111100201110010010000001010
0100010000111110101010001111111110011010111010001100000101
001000101000000110100111111111111110001100000111010001001
00001011110100000111111111111111111001002010111110001011
00010010010100110100111111111111111110001111000000011101
1010000100001111100111111111111111100011110111101111
0101010110011100000111111111111111000100010101111
1111001100101000011111111110010100100011011010
010100100011001111010011120010001101011110001010
0001011000010111101110011101101101010100001110001
0011011010101000110100111120111000100001001011001
0101000010010011111010100011010010100000010010001
001011011110010001001 011 101011001010110100101
011001011000110011 101 0101000001020101
001001100111 000 1110101111
101
010
100
111 1011011010001111
000 1010001101101111
110 000111111100110
000 00101100001110
11111111000111 101 1000100111111
01000110000110011100111110
001
1010
111
1001

어디에 있어요??

이것 뭐예요??



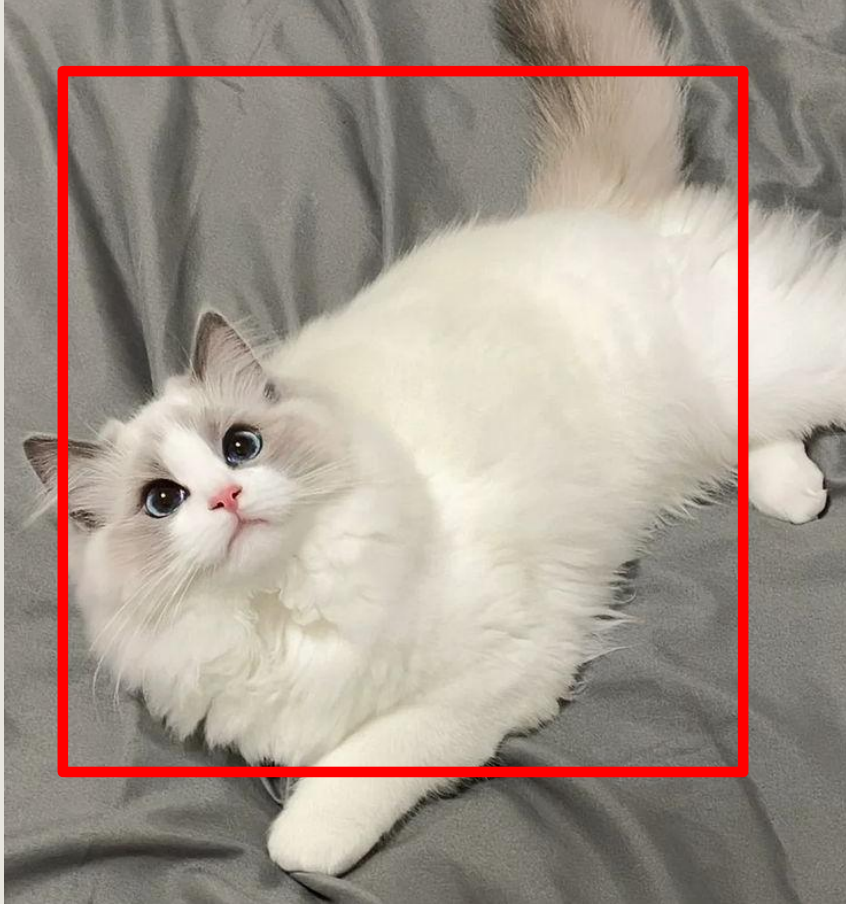
무슨일 이에요??

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 ”

데이터

학습

모델링





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": 0.99536669905662537  
  },  
  {  
    "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

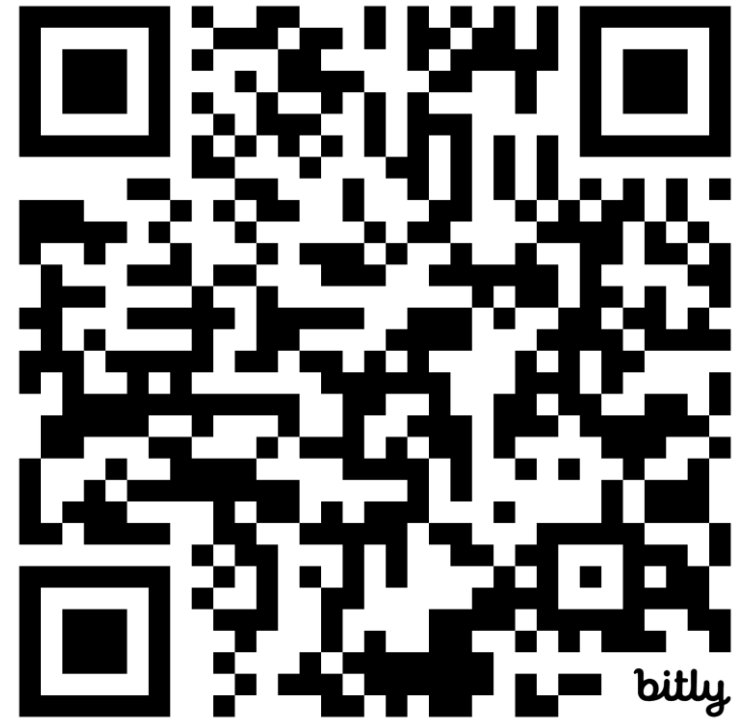


a person holding a book



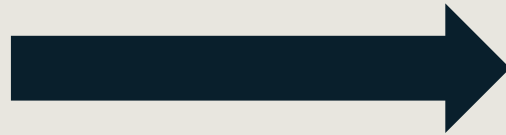
“다 같은 고양이??”

https://bit.ly/Custom_Vision





“이미지”



“데이터”

[**https://bit.ly/Azure_vision**](https://bit.ly/Azure_vision)





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