

IMAGE RECOGNITION WITH IBM CLOUD VISUAL RECOGNITION

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Step 1: Set Up IBM Cloud Visual Recognition API

Create an IBM Cloud Account:

If you haven't already, create an IBM Cloud account and set up your Visual Recognition service.

Get API Key:

Obtain the API key for your Visual Recognition service. This key will be used to authenticate your requests to the API.

Step 2: Implement Image Classification with IBM
Cloud Visual Recognition API
Send Image for Classification:
Use the IBM Visual Recognition API to send images
for classification. You can do this by making a POST
request to the API endpoint with the image file.

```
import requests
url = "https://gateway.watsonplatform.net/visual-
recognition/api/v3/classify"
api_key = "YOUR_API_KEY"

files = {'images_file':
open('path/to/your/image.jpg', 'rb')}
params = {'version': '2018-03-19'}
# Parse the response JSON to get the classification
results
results = response.json()
```

Step 3: Generate Captions Using Natural Language Generation

Use Caption Generation Model:

Utilize a natural language generation model to create captions based on the recognized images.

You can use techniques like recurrent neural networks (RNNs) or transformer models for caption generation.

```
image_features =  
extract_features('path/to/your/image.jpg') #  
Extract features from the image (using a pre-  
trained CNN)  
generated_caption =  
generate_caption(caption_model,  
image_features)
```


Step 4: Display the Recognized Image and Generated Caption

Display Image and Caption:

Display the recognized image along with the generated caption to the user. This could be done in a web application, mobile app, or any other user interface you are building for your project.

Example (in a web application using HTML and JavaScript):

OUTPUT:

```

```

```
<p>Generated Caption: {generated_caption}</p>
```

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- ☒ Custom columns

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☐ Local variant name

☐ head_of_state

Target columns

Search for custom columns

New saved column

Name

head_of_state

Type

Text

Description

Captures information about the head of the state

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