

# IMAGE RECOGNITION WITH IBM CLOUD VISUAL RECOGNITION

Presentation by

Yoga priya.N


Reethika.R

Sumaiya begam.S


Suruthi.Y

Santhosh.P

# IBM Cloud Create account

 IBM Cloud Pak for Data


All

 Search

Catalogs / CreditDataCatalog

## CreditDataCatalog

**Browse assets** Access control Settings

 What assets are you looking for?

Filter by: Any type Any source Any tag Clear all

**Watson recommends** Highly rated Recently added


Data asset

applicant\_personal\_dat...

Owner: Javier Torres Admin  
Added: Oct 27, 2020 11:10 PM

☆☆☆☆☆ 0 reviews

Showing 1 of 1 item

<input type="checkbox"/> Name	Owner	Tags	Business terms	Type
<input type="checkbox"/> applicant_personal_data.csv	 Javier Torres Admin			Data asset

# 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>
```

# SLIDE

## Import reference data set

- ☒ Add file
- ☒ Default columns
- ☒ Custom columns

### Columns from file

☐ 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

Cancel

Save

# SLIDE

IBM Cloud

Catalog

IBM Cloud catalog

Featured

Services

Software

Consulting

Category

☐ AI / Machine Learning

Product

☐ Services

☐ Software


Software


☐ Starter kits


Search resources and offerings...

Q visual recognition

Search results for 'visual recognition' 3 results

**Visual Recognition**  
IBM • Services •  
AI / Machine Learning  
  
Find meaning in visual content! Analyze images for scenes, objects, and other content. Choose a default model off the...  
  
Lite • Free • IAM-enabled

**Visual Recognition Node.js App**  
IBM • Software •  
AI / Machine Learning  
  
Use deep learning algorithms to analyze images that can give you insights into your visual content.  
  
Starter kits • IBM Kubernetes Service •  
Red Hat OpenShift

**Custom Vision Model for Core ML with Watson**  
IBM • Software •  
AI / Machine Learning  
  
Create Apple Core ML Models using the [Watson Visual Recognition](#) service to process and tag images locally.  
  
Starter kits

FEEDBACK

THANK YOU