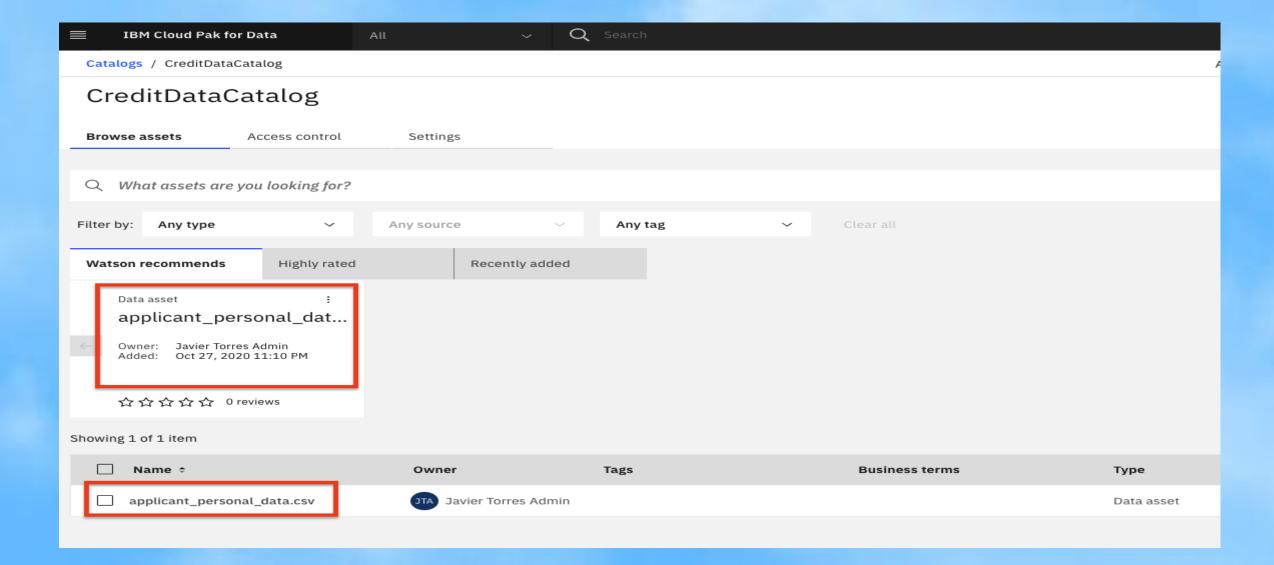
# IMAGE RECOGNITION WITH IBM CLOUD VISUAL RECOGNITION

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# IBM Cloud Create acount



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.

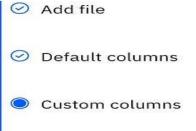
Example (in a web application using HTML and JavaScript):

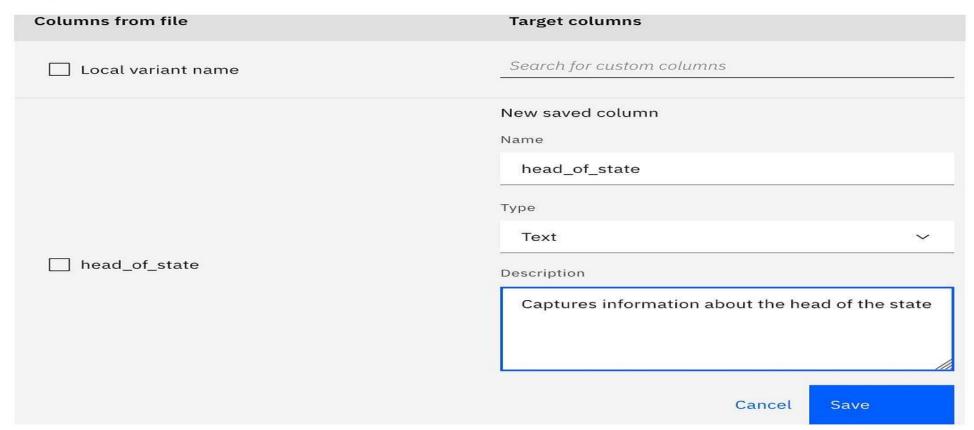
### **OUTPUT**:

```
<img src="path/to/your/image.jpg"
alt="Recognized Image">
Generated Caption: {generated_caption}
```

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#### Import reference data set





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