Overview

return captions

This project involves creating an image recognition system using IBM Cloud Visual Recognition. The goal is to develop a platform where users can upload images, and the system accurately classifies and describ es the image contents. This will enable users to craft engaging visual stories with the help of AI-generated captions, enhancing their connection with the audience through captivating visuals and compelling narrati ves.

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## Code Implementation (Python)
"python
# Import necessary libraries and modules
import ibm_watson
from ibm watson import VisualRecognitionV4
from ibm_watson.visual_recognition_v4 import FileWithMetadata, AnalyzeEnums
import json
# Set up your IBM Cloud Visual Recognition service credentials
api key = 'YOUR API KEY'
url = 'YOUR API URL'
# Create a Visual Recognition client
visual recognition = VisualRecognitionV4(
  version='2021-05-23',
  authenticator=ibm_watson.authenticators.IAMAuthenticator(api_key)
visual recognition.set service url(url)
# Define a function to classify and describe an uploaded image
def classify_and_describe_image(image_path):
  with open(image_path, 'rb') as image_file:
     response = visual recognition.analyze(
       collection_ids=['YOUR_COLLECTION_ID'], # Optional: You can create custom collections
       features=[AnalyzeEnums.Features.OBJECTS, AnalyzeEnums.Features.DESCRIPTION],
       images file=[FileWithMetadata(image file)]
    ).get_result()
  return response
# Define a function to generate Al-generated captions
def generate captions(image data):
  captions = []
  for image in image_data['images']:
    if 'objects' in image:
       objects = image['objects']['collections']
       for obj in objects:
         captions.append(obi['name'])
    if 'description' in image:
       descriptions = image['description']['captions']
       for desc in descriptions:
         captions.append(desc['text'])
```

```
# Define a function to interact with the user interface and handle image uploads
def main():
    while True:
        user_input = input("Upload an image (type 'exit' to quit): ")
        if user_input.lower() == 'exit':
            break

# Call the classification and description function
        image_data = classify_and_describe_image(user_input)

# Generate Al-generated captions
        captions = generate_captions(image_data)

# Display captions to the user
        for caption in captions:
            print("Al-generated Caption:", caption)

if __name__ == "__main__":
        main()
```