Exercise 1: Classify objects and faces in Images with IBM Watson

Created @August 11, 2021 2:52 PM

Visual Recognition

Objective for Exercise:

- Exploring Watson Visual Recognition
- Understanding Pre Trained Models
- Learn how to use Watson Visual Recognition to analyze images.

Exploring Watson Visual Recognition

IBM provides an online demo of Watson Visual Recognition.

Click here to view the demo Watson Visual Recognition

There is a pre-trained Visual recognition model which analyzes and identifies the object.

Use the following steps to explore the demo to do the final assignment.

Pre Trained Models

1. By default, the image of the person in the tweed jacket is selected.
2. In the output section on the right, Note that Watson has identified characteristics that exist in the image.

Input

Output

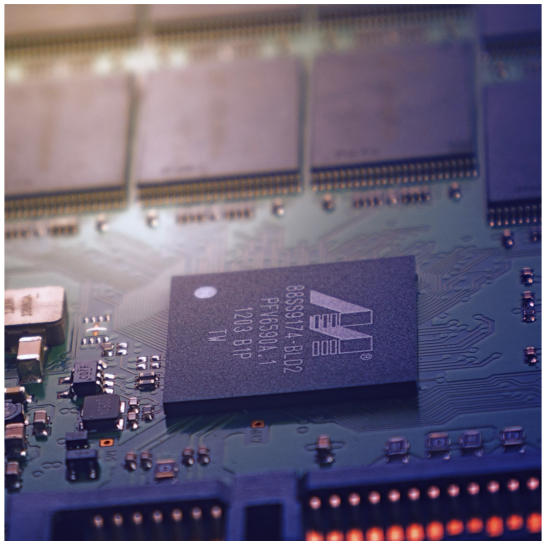
Table JSON

Result

Top Classes	Score
gray color	0.95
fabric	0.94
Harris Tweed (jacket)	0.81
clothing	0.80
tweed	0.68

1. What level of confidence does Watson have that the image is of:
    - fabric
    - gray color
    - Harris Tweed (jacket)
    - clothing
2. Select the image of liquid in a beaker.
3. Under General Model, review the options. Watson can identify characteristics that exist in the image.
4. What level of confidence does Watson have that the image is of:
    - chocolate color
    - beverage
    - food
5. Select the given two images (hard disk and beaker) and analyze the result. You will see predictions as given below.

Input



Output

Table JSON

Result

Top Classes	Score
ultramarine color	0.91
electrical device	0.67
sequencer (apparatus)	0.63
apparatus	0.63
equipment	0.60
conductor	0.60
system	0.60
electronic equipment	0.60
memory device	0.60
computer circuit	0.54

Input

Output

Table JSON

Result

Top Classes	Score
chocolate color	0.97
food	0.78
beverage	0.71
alcoholic beverage	0.70
wine	0.63
soy sauce	0.57
condiment	0.57
food seasoning	0.57
food ingredient	0.57
food product	0.57