**Watson Visual Recognition**

1. We will see how to use IBM Watson visual recognition service
2. Before that, let me give me a little briefing about what is Watson and where does the visual recognition service stand
3. The current material I go through is available in lighthouse with the GitHub link

https://github.ibm.com/Krishna-Damarla1/Watson-Visual-Recognition/blob/master/README.md

**Lets get started**



**Visual recognition service creation in IBM Cloud account**

1. Go to <https://www.ibm.com/watson/services/visual-recognition/>
2. Check **demo** page to get an idea of how service works https://www.ibm.com/watson/services/visual-recognition/demo/#demo
3. Once you click on **lets get started** button, you will be redirected to the service page after entering Ibm id & password in your ibm cloud account.

<https://cloud.ibm.com/catalog/services/visual-recognition?hideTours=true&amp;?cm_sp=WatsonPlatform-WatsonPlatform-_-OnPageNavCTA-IBMWatson_VisualRecognition-_-Watson_Developer_Website>

1. Click on the **create**  button
2. Later you get the **main** page <https://cloud.ibm.com/services/watson-vision-combined/crn%3Av1%3Abluemix%3Apublic%3Awatson-vision-combined%3Aus-south%3Aa%2F0e9b5420fbbe46bd897bcee93d0c0c5b%3Adc9ac3c0-8e18-44f0-a9a3-a0e6fbe1500d%3A%3A?bss_account=0e9b5420fbbe46bd897bcee93d0c0c5b>

**Launch the service and test food, face, general pre trained models with sample images**

1. Observe the **API Key credentials** for your account. We need these credentials to call the service from your application or when making **curl or postman** requests.
2. Feel comfortable to use <https://www.getpostman.com/> . Postman has gui interface and more user friendly than curl.
3. Click on **launch tool** and test all the available models

Food

Face

General

Explicit

1. Feel free to test **above pre trained models** with whatever images you have at hand.
2. Text and detect objects models are in beta versions. You need request access to test them. Once you get the access, the process is same as shown in above cases.
3. https://cloud.ibm.com/apidocs/visual-recognition
4. Go through **documentation of each model** to know indepth details <https://cloud.ibm.com/apidocs/visual-recognition>

Hope you understood so far. Lets look into something serious.



**Creating custom model**

1. Hope you remember you api key credentials. Just go back to the main service page and copy the apikey and url
2. Lets make a **get request from postman** to the service.
3. Copy the curl request and export it to postman
4. If you get **status 200** or ok, then we are **ready to start** with custom model creation. If any other codes like 400, then connection to the service is not established. Make sure you entered all the api\_keys and url properly.
5. **Get the images to train in a zip file**. Include at least one negative .zip file. For example, in dogs classifier, I included 3 positive zip files of different dog breeds and one negative cats zip file.
6. **Submit the training datasets from postman to the url you copied** from main service page
7. Refer creating custom model documentation incases of any doubts <https://cloud.ibm.com/docs/services/visual-recognition?topic=visual-recognition-tutorial-custom-classifier#tutorial-custom-classifier>
8. **Once model is created, test it with your sample images.**
9. Check the created custom classifier model in the service launch page.
10. I am testing with few dogs and cats samples.
11. You can improve your training further with more images for better prediction accuracies.

For references or other related material , refer given github link. Thank you :)