

Fashion Product Classifier:

This project was developed by using IBM Visual Recognition Service and Node Red service application

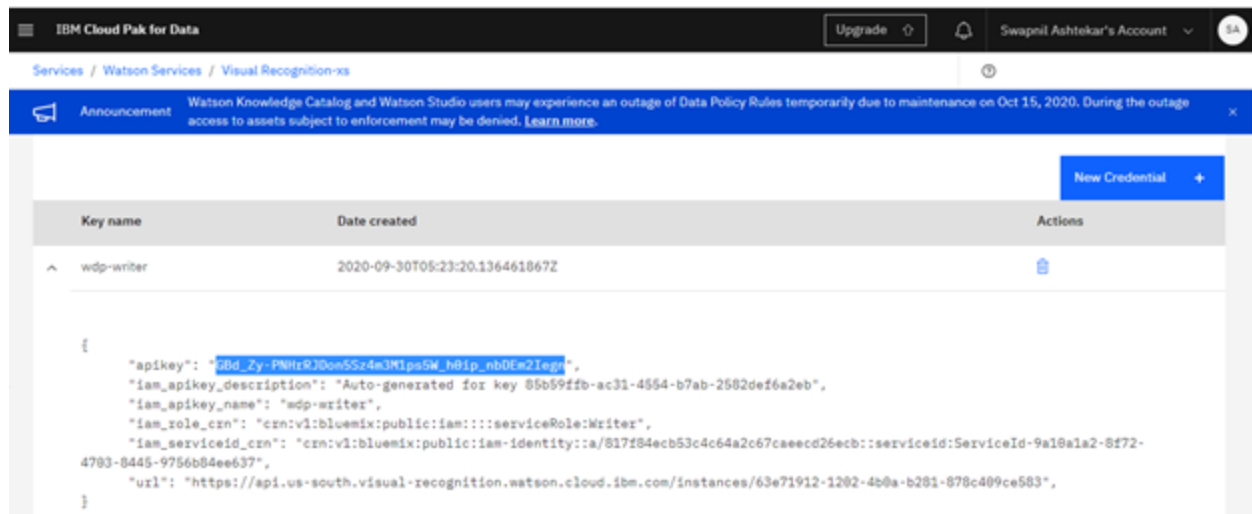
First we need to have academic initiative account then we can have access for all the IBM cloud account for free of cost with lite account.

Then we have to create the services in the IBM cloud account as per the requirement of the project:

Once visual recognition service is created under Watson services the api key for that service is very important which could be noted down from the service credentials for my service the api key used was as follows:

Api Key

GBd\_Zy-PNhrRJDOn5Sz4m3M1ps5W\_h0ip\_nbDEm2Iegn



This api key plays a major role to integrate the Visual recognition service with the Node red App if it's wrong then integration of Visual recognition service with the Node red App will fail.

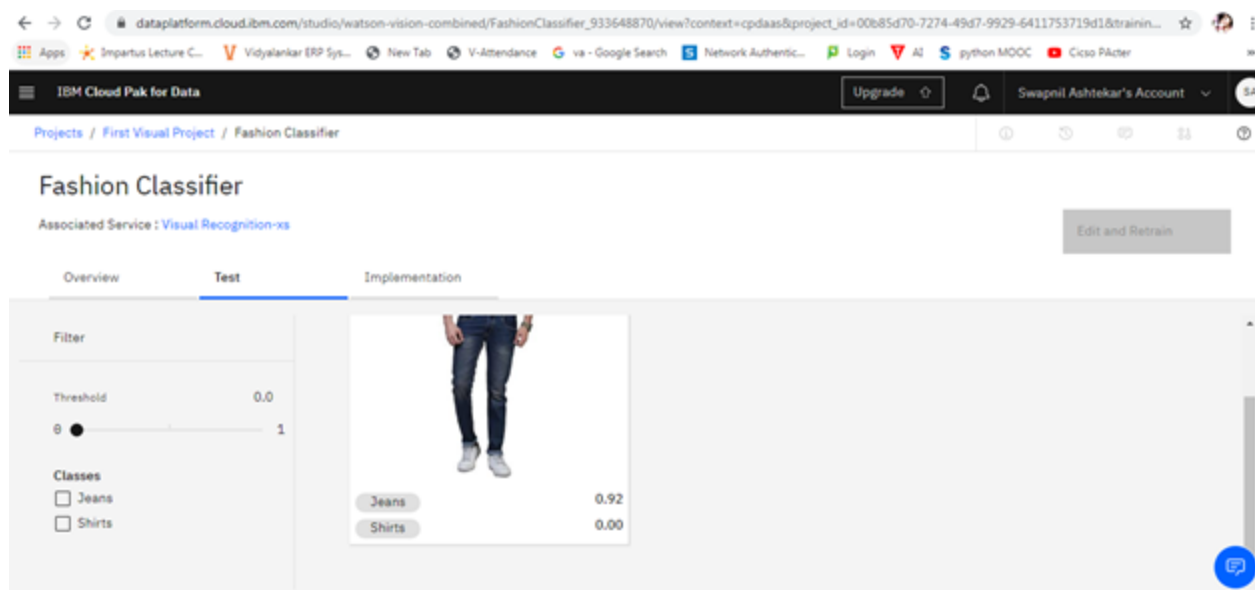
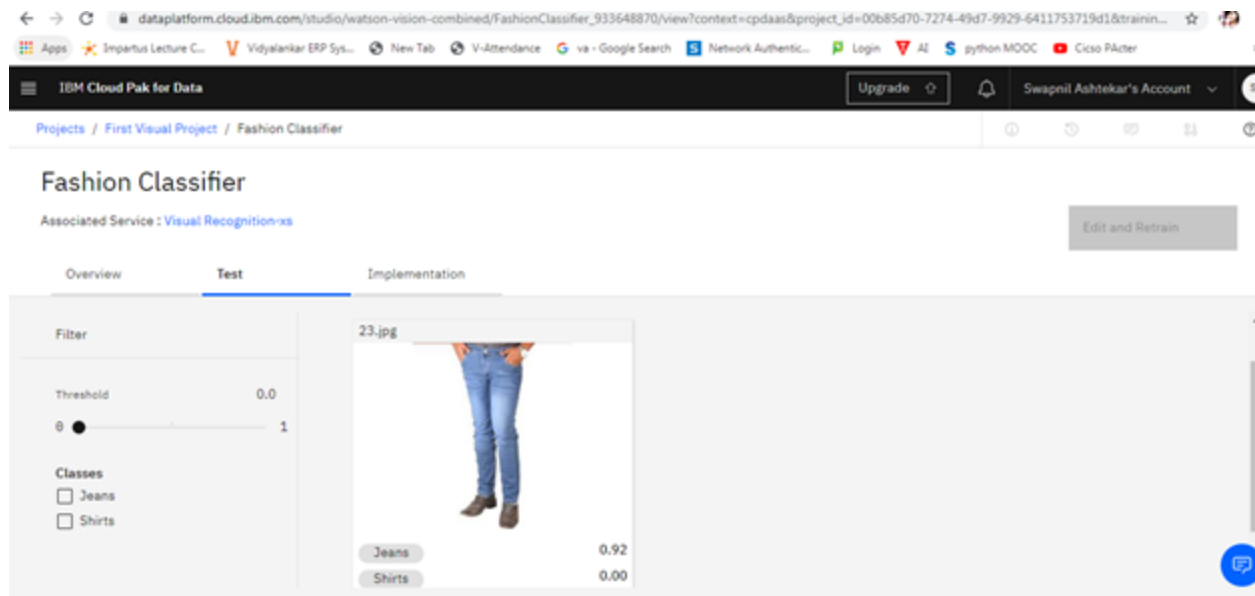
With api key the Model id also plays a major role this could be able to get once we create the custom model under visual recognition service.

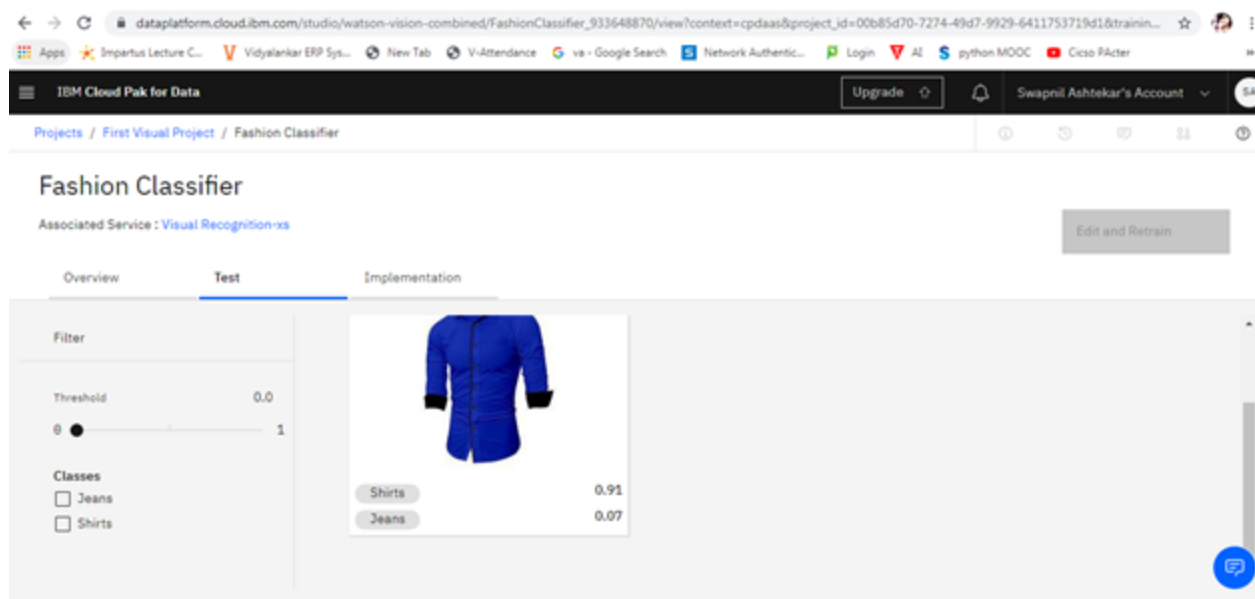
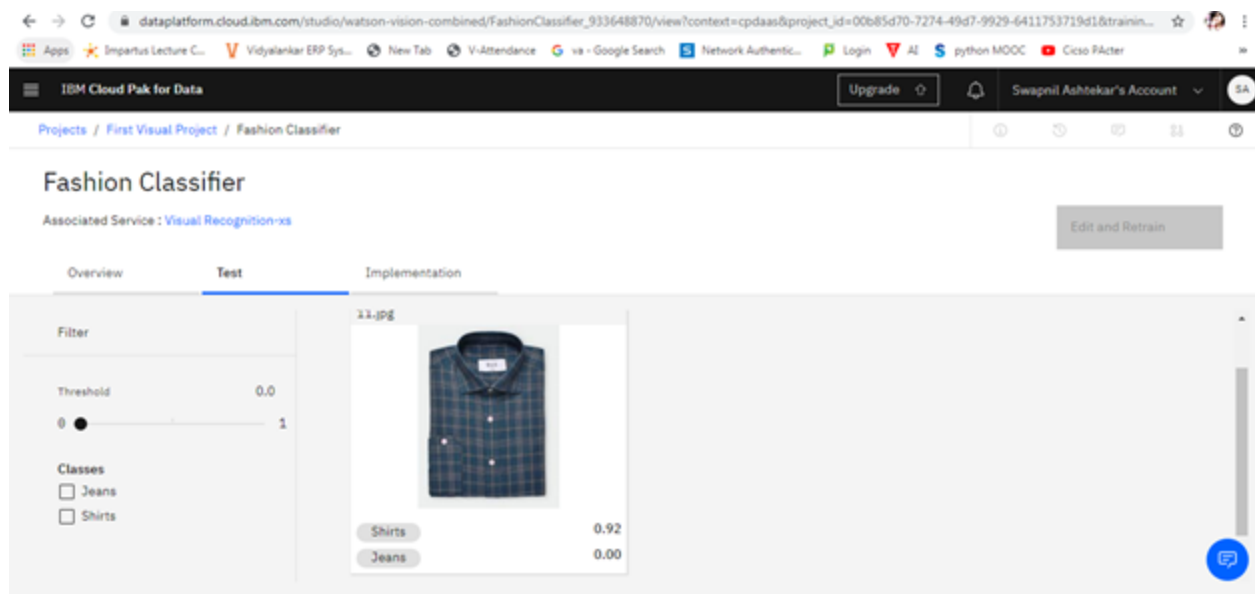
In my project I have done the classification of two product fashion classes which are jeans and shirts

I have made two classes of Jeans and shirt in my custom model and then made it train. Once they were trained then I have tested them to check the confidence level.

Normally once the confidence level is above 0.9 it is said that machine has predicted more nicely.

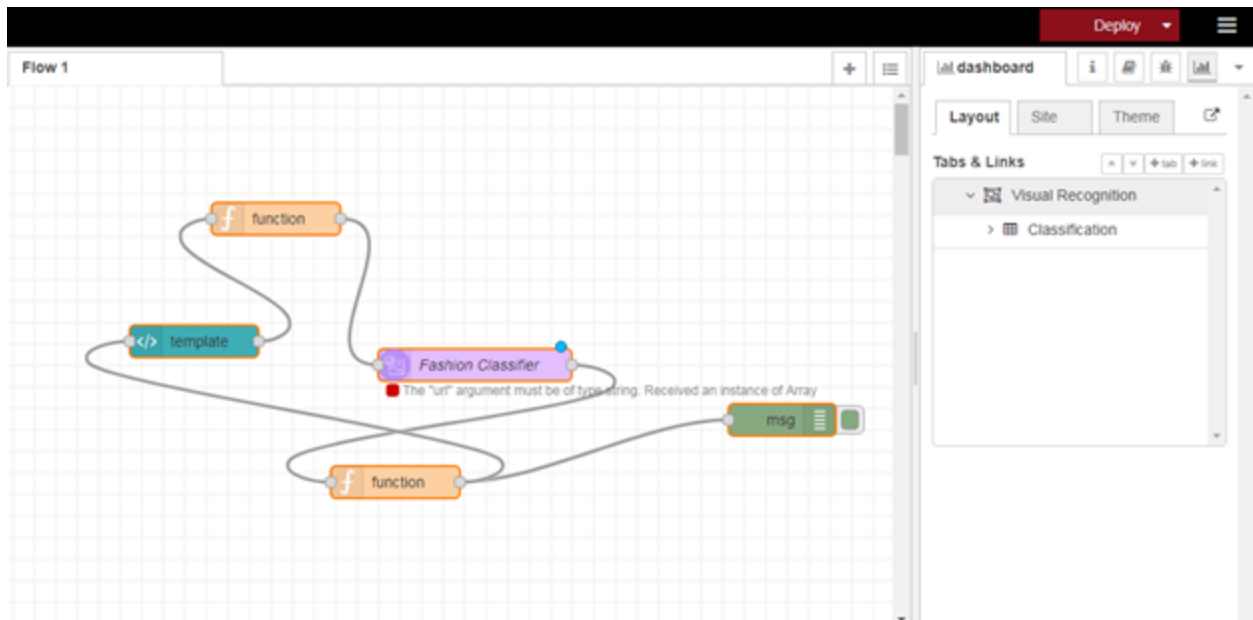
In most the image classes training of jeans and Shirt the confidence is level is above 0.9 around 0.92



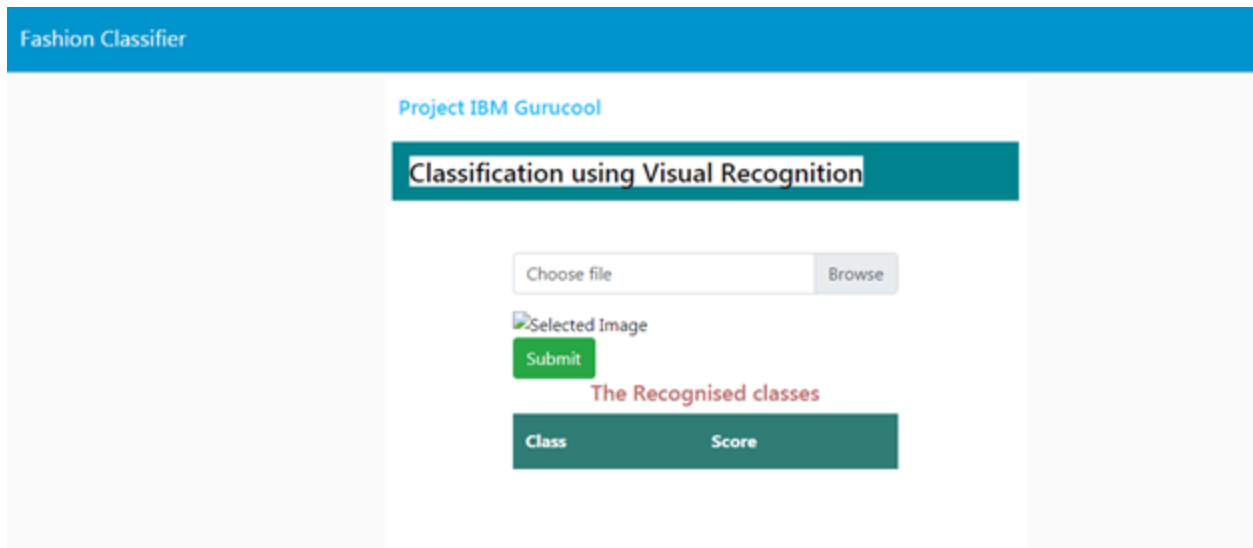


After the testing now its time to prepare the node red app .

Node Red app was first created then the flow part was created as shown below:



It shows the UI where user will select the image to be classified



In flow the API key in Test node renamed as Fashion Classifier and Fashion model id in template node plays a vital role,

Projects / First Visual Project / Fashion Classifier

Overview Test Implementation

## Summary

Search Summary



Model ID	FashionClassifier_933648870
Status	Ready
Explanation	This model is ready for use.
Created on	10/9/2020, 5:38:51 PM
Updated on	10/9/2020, 5:38:51 PM
Number of classes	2
Number of images	50

Services / Watson Services / Visual Recognition-v3

Overview Credentials

## Service Credentials

New Credential +

Key name	Date created	Actions
 wdp-writer	2020-09-30T05:23:20.136461867Z	
<pre>{   "apikey": "GBd_Zy-PNHrR3Don5Sz4m3M1ps5W_h81p_nb0Em2Iegn",   "iam_apikey_description": "Auto-generated for key 85b59ffb-ac31-4554-b7ab-2582def6a2eb",   "iam_apikey_name": "wdp-writer",   "iam_role_crn": "crn:v1:bluemix:public:iam::::serviceRole:Writer",   "iam_serviceid_crn": "crn:v1:bluemix:public:iam-identity::a/817f84ecb53c4c64a2c67caeecd26ecb::serviceid:ServiceId-9a18a1a2-8f72-4783-8445-9756b84ee637",   "url": "https://api.us-south.visual-recognition.watson.cloud.ibm.com/instances/63e71912-1202-4b8a-b281-878c489ce583", }</pre>		

Flow 1

function

template

Edit visual recognition node

Delete

Cancel

Done

Properties

API Key

Service Endpoint

Detect

Name

Language

.....

https://api.us-south.visual-recognition.watson.clou

Classify an image

Fashion Classifier

English

dashboard

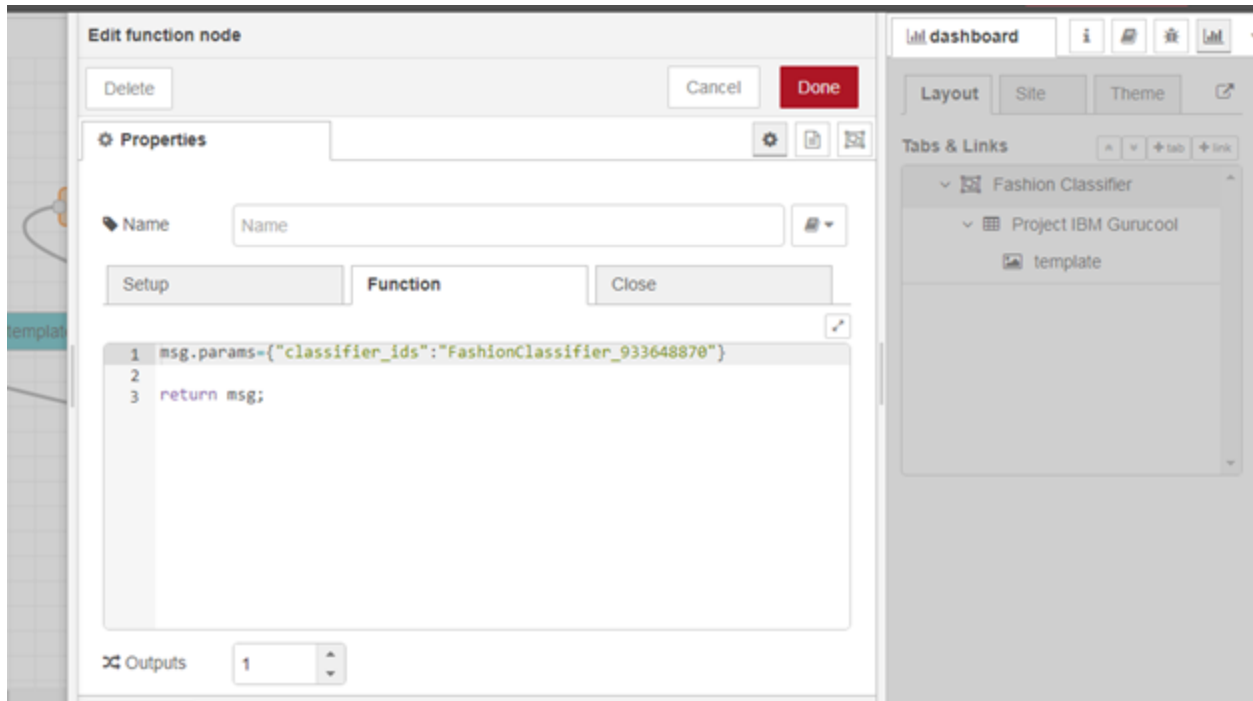
Layout

Site

Theme

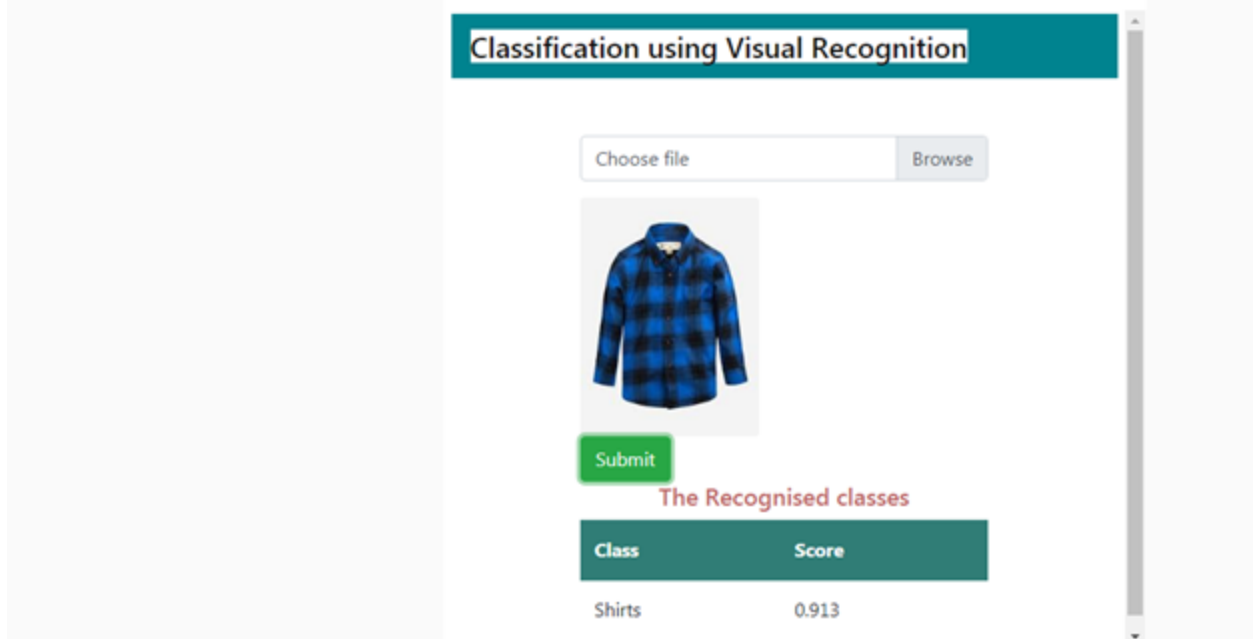
Visual Recognition

Classification



Final Output achieved is as follows:

## Visual Recognition



### Classification using Visual Recognition

Choose file

Browse



Submit

The Recognised classes

Class	Score
Shirts	0.91

### Classification using Visual Recognition

Choose file

Browse



Submit

The Recognised classes

Class	Score
Jeans	0.92

### Classification using Visual Recognition

Choose file

Browse



Submit

The Recognised classes

Class	Score
Jeans	0.92

Thank You IBM Team.....