

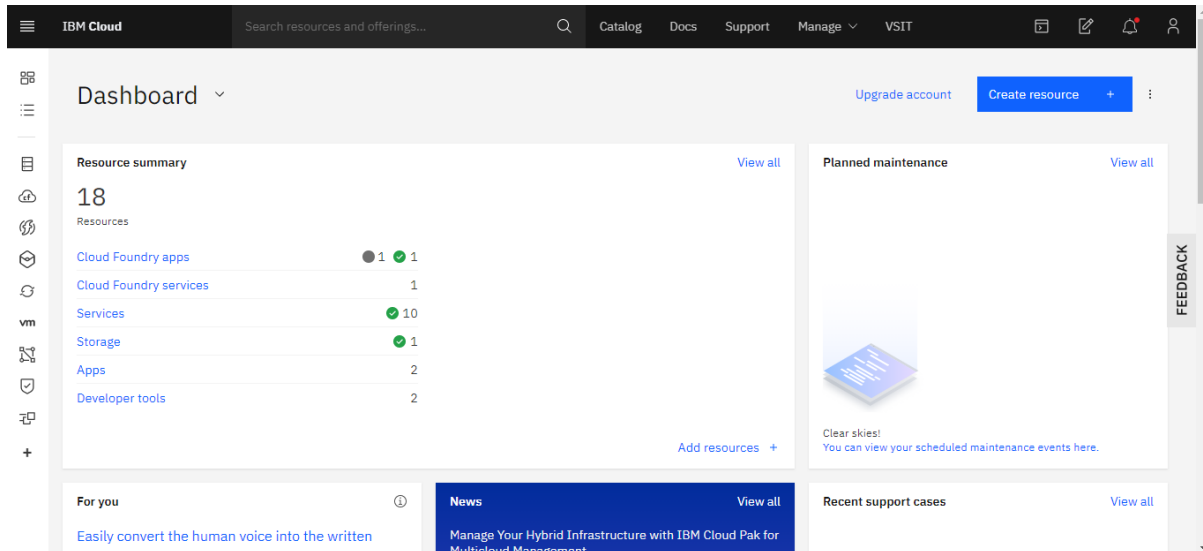
## **Project- Track workplace condition to ensure employees safety in warehouse**

1. IBM Cloud go to Catalog - services - AI/ML - Watson Studio  
or search for "Watson Studio"
2. Change region to Dallas and click on create button
3. Click on Get Started
4. Click on New Project
5. Click on "Create an empty project"
6. Give name as "Classification" and click on Add button (this helps in adding the cloud object storage service by creating)
7. Click on create
8. Click on add to project
9. Click on visual recognition service
10. Click on click here
11. Click on new service
12. Click on visual recognition
13. Click on create
14. visual Recognition-ng created
15. Select the checkbox and click on associate service
16. In Custom model click on Create model and add images for classification by using browse button and train the data.
17. Click on test – browse any image
18. Success full
19. Create a node-red application using Node-red App
20. Created a GUI using Node-red, added API key and Visual recognition and model ID and deployed an application and checked the image is trained properly and got the correct output.

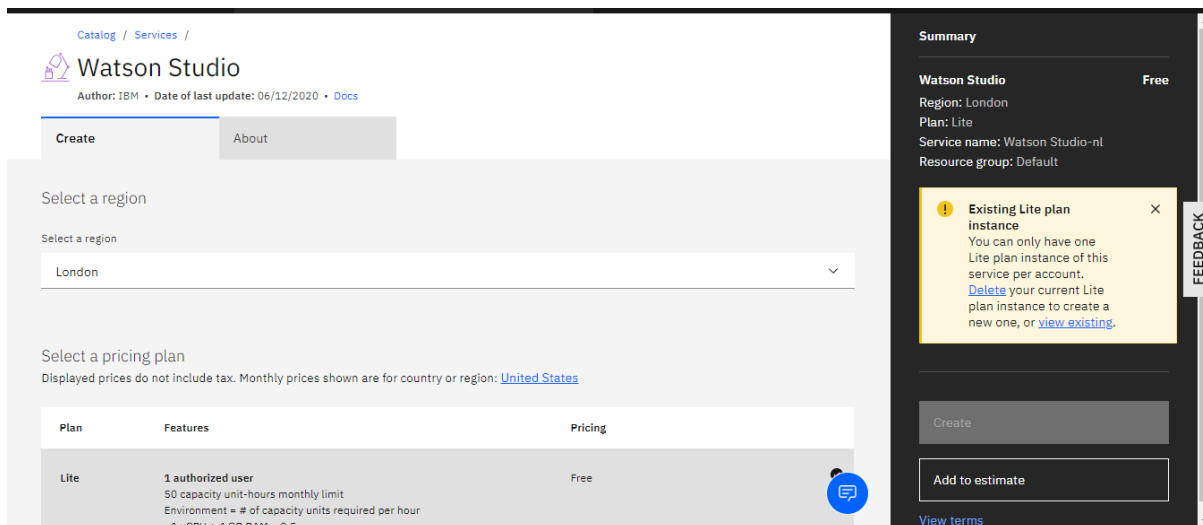
# Snapshots of Working of Project

## (Visual recognition , Custom Model development and Node-Red Application with Output)

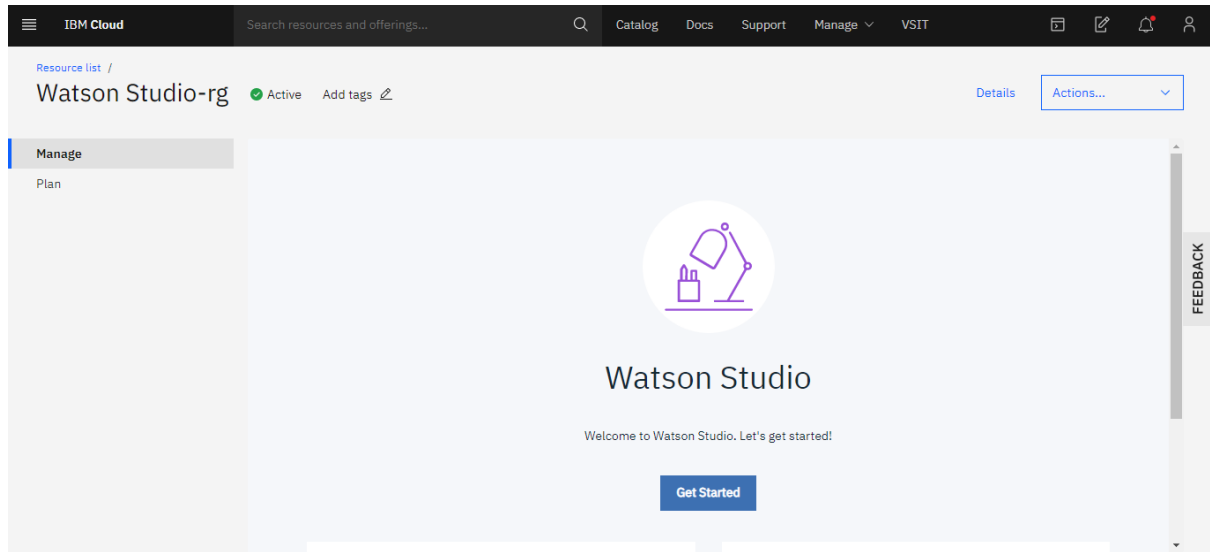
1.



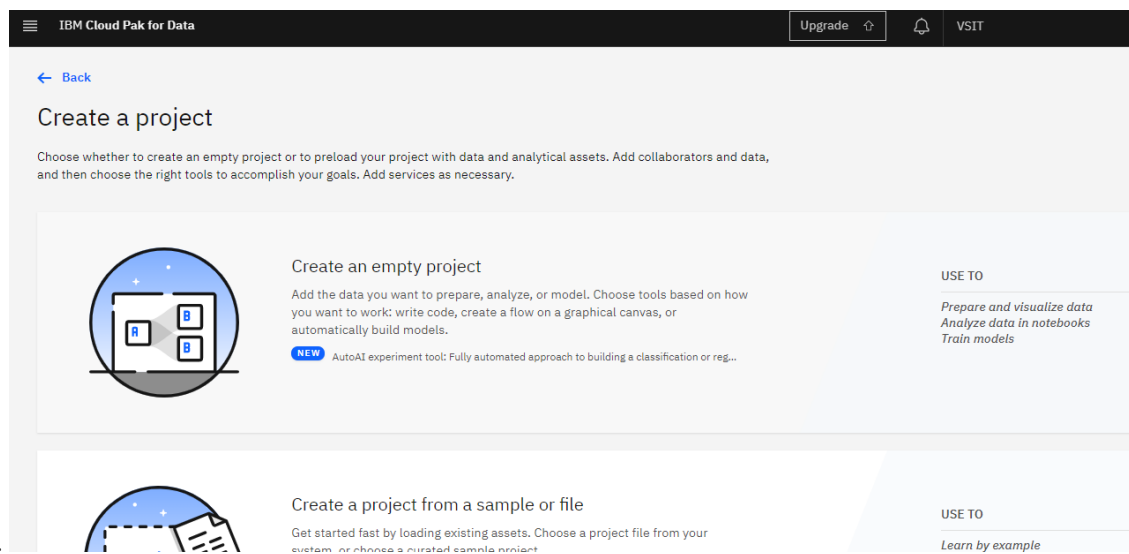
2.



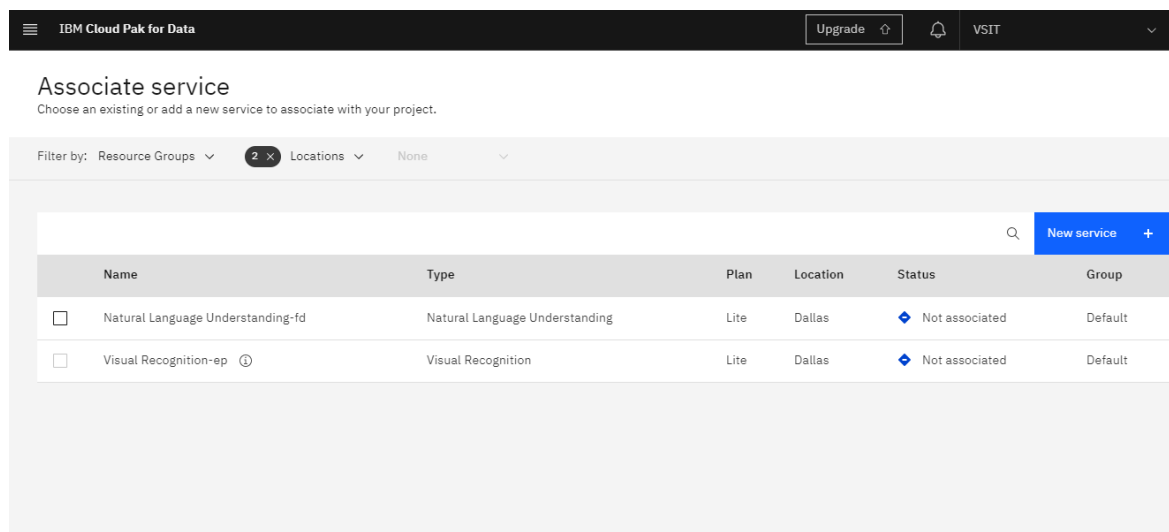
3.



4.



5.



IBM Cloud Pak for Data

Upgrade

VSIT

Projects / Classification of Employees

Launch IDE

Add to project

Overview Assets Environments Jobs Access Control Settings

## Classification of Employees

Last Updated: Oct 14, 2020

Readme

3 Assets 1 Collaborators

**Overview**

Date created  
Oct 14, 2020

Description  
No description available

Storage  
576.96 KB used  
Cloud Object Storage

Collaborators

**Recent activity**

Alerts related to this project appear here when the project is active.

6.

IBM Cloud Pak for Data

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VSIT

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Launch IDE

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Overview Assets Environments Jobs Access Control Settings

## Classification of Employees

Last Updated: Oct 14, 2020

Readme

3 Assets 1 Collaborators

**Overview**

Date created  
Oct 14, 2020

Description  
No description available

Storage  
576.96 KB used  
Cloud Object Storage

Collaborators

**Choose asset type**

Available asset types

- Data
- Connection
- Connected data
- AutoAI experiment
- Notebook
- Dashboard
- Visual Recognition ...
- Natural Language Cl...
- Model from file
- Deep learning experi...
- Modeler flow
- Data Refinery flow
- Streams flow
- Decision Optimization...

7.

IBM Cloud Pak for Data

Upgrade

VSIT

Services catalog /

## Visual Recognition

Author: IBM • Date of last update: Oct 14, 2020 • Docs • API Docs

Create About

Select a region

Select a region

Dallas

Pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or region: United States

Plan	Features	Pricing
Standard	Assets created from the Lite Plan included	\$0.00 USD/Asset/Topic

**Summary**

**Visual Recognition**

Region: Dallas  
Plan: Standard  
Service name: Visual Recognition-ol  
Resource group: Default

Create

View terms

8.

9.

The screenshot shows the 'Custom Models' section of the IBM Cloud Pak for Data interface. The breadcrumb trail is 'Projects / Classification of Employees / Create visual recognition model'. The 'Custom Models' section includes two cards: 'Classify Images' and 'Detect Objects', each with a 'Create Model +' button. The 'Prebuilt Models' section includes three cards: 'General', 'Food', and 'Explicit', each with a 'Copy classifier ID' button and a brief description of their capabilities.

10.

The screenshot shows the 'Projects' section of the IBM Cloud Pak for Data interface. The breadcrumb trail is 'Projects'. A search bar is present with the text 'Which project are you looking for?'. Below the search bar is a table listing projects:

Name	Role	Storage	Collaborators	Creator	Date created
<a href="#">Classification of Employees</a>	Admin	COS		Rohini Desai	14 Oct 2020
<a href="#">Demographic-Impact-on-Sales</a>	Admin	COS		Rohini Desai	5 Oct 2020

A 'Show more' button is located at the bottom of the table.

11.

The screenshot shows the 'Data assets' and 'Models' sections of the IBM Cloud Pak for Data interface. The breadcrumb trail is 'Projects / Classification of Employees'. The 'Data assets' section shows '0 assets selected.' and a table with two data assets:

Name	Type	Created by	Last modified
<a href="#">ZIP Man_without_helmet.zip</a>	Data Asset	Rohini Desai	Oct 14, 2020, 11:01 PM
<a href="#">ZIP Man with Helmet.zip</a>	Data Asset	Rohini Desai	Oct 14, 2020, 11:00 PM

The 'Models' section shows 'Visual Recognition models' and a table with two models:

Name	Model ID	Model type	Last modified
<a href="#">Default Custom Model</a>	Available upon training	Classification	Oct 17, 2020, 12:34 PM
<a href="#">Classification of Employees</a>	ClassificationofEmployees_1544345354	Classification	Oct 14, 2020, 11:12 PM

IBM Cloud Pak for Data

Upgrade

VSIT

Projects / Classification of Employees

Launch IDE

Add to project

Overview

Assets

Environments

Jobs

Access Control

Settings

Access Control

Add collaborators

Which collaborator are you looking for?

Name	Email	Permission	Status
Rohini Desai	rohini.desai@vsit.edu.in	Admin	Active

Service IDs

Add Service ID

Name	Permission	Status
You currently have no service IDs		

12.

13.

IBM Cloud

Search resources and offerings...

Catalog

Docs

Support

Manage

VSIT

Resource list /

Node RED CVNQL 2020-10-14

Running

Visit App URL

Add tags

Details

Actions...

Getting started

Overview

Runtime

Connections

Logs

API Management

Autoscaling

Instances

Edit

Health

100%

1/1 instance(s) are running

Instances

1

MB memory per instance

0

256

256

Runtime

SDK for Node.js™

256

Total MB allocation

0 MB still available

Used

Free

Runtime cost

Current and estimated cost excludes connected services.

\$ 0.00

\$ 0.00

Connections (1)

node-red-rfxee-2020--cloudant-1601471017723-33237

14.

IBM Cloud

Search resources and offerings...

Catalog

Docs

Support

Manage

VSIT

Current charges for billing period

Estimated total for billing period

Oct 1, 2020 - Oct 31, 2020

Full details

Create connection

Continuous delivery

You enabled continuous delivery and have a toolchain. With your toolchain, you can automate builds, tests, deployments, and more. [View docs](#)

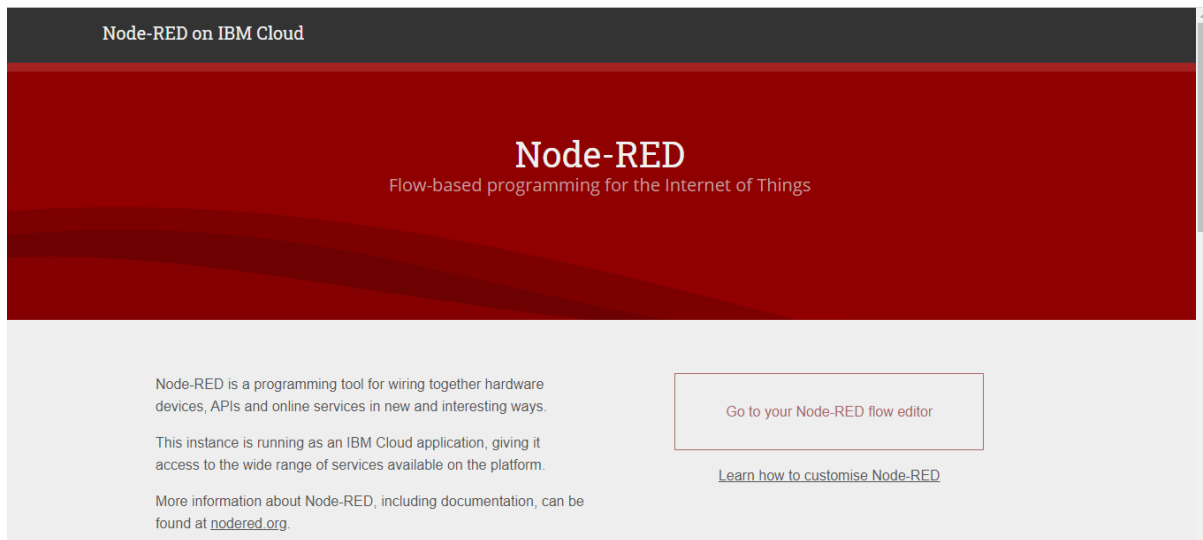
View toolchain

Activity feed

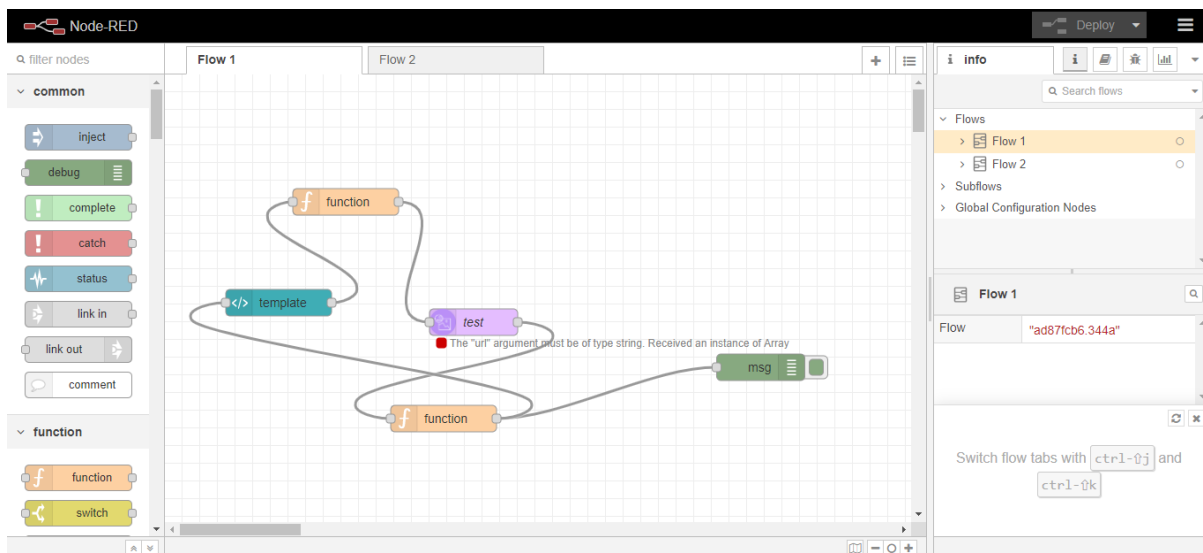
- started Node RED CVNQL 2020-10-14 app  
Oct 14, 2020, 09:46:58 PM | rohini.desai@vsit.edu.in
- updated Node RED CVNQL 2020-10-14 app  
changed routes  
Oct 14, 2020, 09:46:40 PM | rohini.desai@vsit.edu.in
- created Node RED CVNQL 2020-10-14 app  
Oct 14, 2020, 09:46:37 PM | rohini.desai@vsit.edu.in

Full details

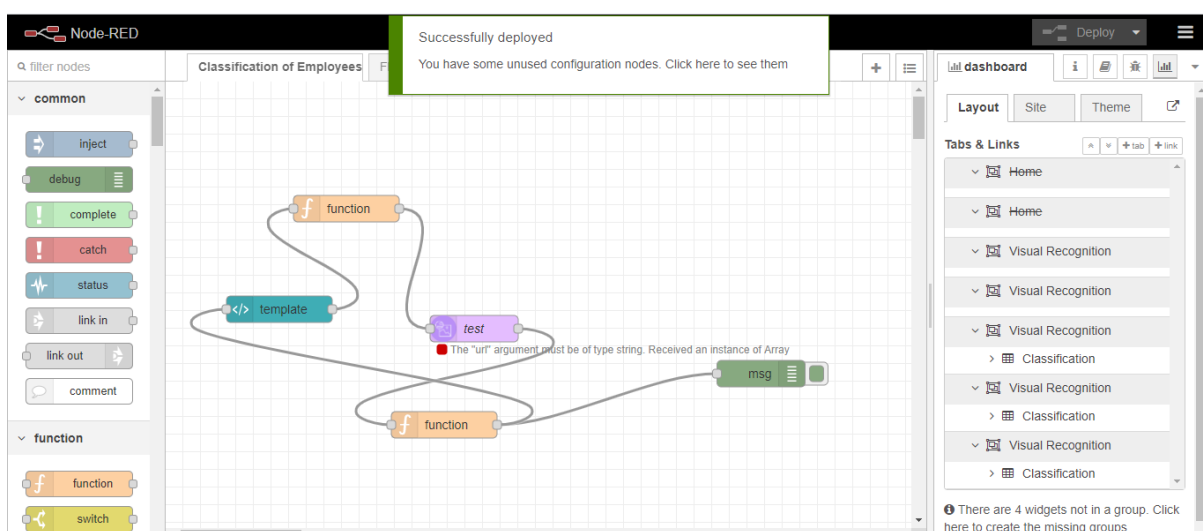
15.



16.



17.



18.

Visual Recognition

Classification

Classification using Visual Recognition

Choose file

Browse

Selected Image

Submit

The Recognised classes

Class	Score
-------	-------

19. Output


Visual Recognition

Classification

Classification using Visual Recognition

Choose file

Browse



Submit

The Recognised classes

Class	Score
Man_without_helmet	0.87

20. Output



## Classification using Visual Recognition

Choose file

Browse



Submit

## The Recognised classes

Class	Score
Man with Helmet	0.886

21.

## Classification using Visual Recognition

Choose file

Browse



Submit

## The Recognised classes

Class	Score
Man_without_helmet	0.92

22.

## Visual Recognition

### Classification using Visual Recognition

Choose file

Browse



Submit

The Recognised classes

Class	Score
Man_without_helmet	0.916