




Project Development Phase
Sprint - 4
Deployment of the Model in IBM Cloud

Date	17 November 2022
Team ID	PNT2022TMID13105
Project Name	
Maximum Marks	4 Marks

Resource List:

Resource list

Create resource +

▼ Name	↑ Group	Location	Product	Status	Tags
Q Filter by name or IP address...	Filter by group or org... ▼	Filter... ▼	Q Filter...	Q Filter...	Filter... ▼
▼ Compute (0)					
▼ Containers (0)					
▼ Networking (0)					
^ Storage (1)					
 Cloud Object Storage-em	Default	Global	Cloud Object Storage	✔ Active	cpdaas
^ AI / Machine Learning (2)					
 Watson Machine Learning-e1	Default	Dallas	Watson Machine Learning	✔ Active	—
 Watson Studio-s7	Default	Dallas	Watson Studio	✔ Active	—
▼ Analytics (0)					
▼ Blockchain (0)					
▼ Databases (0)					

The resource list shows the all the resources that are used in that particular account

Watson Studio Dashboard

IBM Watson Studio

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Projects / Fertilizer Recommendation Syste...

Launch IDE

ⓘ

OverviewAssetsJobsManage

Assets

Project solution - Fruit Dataset

11 minutes ago by you

View all

Resource usage

For this month in this project

4.4 CUH

Project history

You created project Fertilizer Recommendation System for Disease Prediction

Today at 12:32 PM

Readme

Type project notes, reminders, or instructions

Data in this project

Drop data files here or browse for files to upload

Assets:

Projects / Fertilizer Recommendation System

Overview

Assets

Jobs

Manage

Find assets

Import assets

New asset

2 assets

All assets

Asset types

Data1

Data assets1

Notebooks1

All assets

Name	Last modified
Project solution - Fruit Dataset Notebook	12 minutes ago Modified by you
Fruit Dataset.zip ZIP	4 hours ago Modified by you

Data in this project

Drop data files here or browse for files to upload

Resources used to deploy the model:

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Launch IDE

Overview

Assets

Jobs

Manage

Project

General

Access control

Environments

Resource usage

Services & integrations

Resource usage

Usage summary

For this month in this project

4.4 CUH

Manage service instances

Usage by type

Resource Type	Usage (CUH)
Notebook	4.4

Cloud Object Storage Buckets Created:

IBM Cloud

Cloud Object Storage

Storage instances

Cloud Object Storage-em

Buckets

Integrations

Endpoints

Usage details

Service credentials

Connections

Plan

Search resources and products...

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Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Search

Create bucket

Name	Public access	Location	Storage class	Created
cd50bc44-8a16-48ea-9dd0-4ff3451d3935	No	us-south	Standard	2022-11-17 3:49 PM
fertilizerrecommendationsystemfor-donotdelete-pr-yz7ro2fws2b4p3	No	us-geo	Standard	2022-11-17 12:32 PM

Space created for deployment associated with the Watson Machine Learning:

IBM Watson Studio

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Deployments /

FertilizerSpace

description

Overview



Assets

Deployments

Jobs

Manage

Search

Name	Type	Status	Asset	Last modified	
 Fertilizer_Recommendation_Model_Deployment	Online	 Deployed	Fertilizer_Recommendation_System_for_Disease_Prediction	28 minutes ago Naveena K S (You)	

Overview of the Deployments page:

IBM Watson Studio

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Deployments /

FertilizerSpace

description

Overview

Assets

Deployments

Jobs

Manage

Assets

Fertilizer_Recommendation_System_for_Disease_Prediction

35 minutes ago

Fertilizer_Recommendation_System_for_Disease_Prediction

35 minutes ago

View all (2)

Deployments

All

1

0

Deployed

Failed

View deployments

Job runs

0

0

Active

Failed last 24 hours

View jobs

Space activity

Online deployment ready

The online deployment [Fertilizer_Recommendation_Model_Deployment](#) in space [FertilizerSpace](#) is ready to accept requests


Today at 04:45 PM


Online deployment created

You created online deployment "[Fertilizer_Recommendation_Model_Deployment](#)" in space [FertilizerSpace](#). You must wait for the deployment to enter ready state before


Today at 04:45 PM


Details of the deployed model:

 IBM Watson Studio

 Search in your workspaces


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Deployments / FertilizerSpace / Fertilizer_Recommendation_Syst... /




Fertilizer_Recommendation_Model_Deployment ✔ Deployed Online

API reference

Test

Endpoint

Bearer <token> 

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/b12fd7e9-7f2c-4b09-9810-cd5503af9bf2/predictions?version=2022-11-17T16:45:00.000Z

IAM

Code snippets

cURL	Java	JavaScript	Python	Scala
------	------	------------	--------	-------


```
import requests

# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "<your API key>"
token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
  API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
mltoken = token_response.json()["access_token"]

header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}


# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"fields": [array_of_input_fields], "values": [array_of_values_to_be_scored, another_array_of_val


response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/b12fd7e9-7f2c-4b09-9810-cd5503af9bf2/predicti
  headers={'Authorization': 'Bearer ' + mltoken})
```


Fertilizer_Recommendation_Model_Deployment 


Created
Nov 17, 2022, 4:45 PM


Updated
Nov 17, 2022, 4:45 PM


Deployment ID
b12fd7e9-7f2c-4b09-9810-cd5... 


Software specification
[runtime-22.1-py3.9](#) 

Hardware specification
XXS: 1 vCPU and 2 GB RAM 


Copies
1 

Serving name
No serving name. 

Description
No description provided. 


Tags 


Test the model with the json file input:

 IBM Watson Studio

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
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Fertilizer_Recommendation_Model_Deployment ✔ Deployed Online

API reference



Test

Enter input data

Text input

JSON input

Text input and .csv files are not supported for this deployment because it does not have an input schema defined.
Manually enter or upload a file containing input data in JSON format. Max file size is 50 MB.

[Browse local files](#)  [Search in space](#) 

```
{  
  "input_data": []  
}
```

Predict