



Ganpat University

॥ विद्या समाजोत्कर्षः ॥

Institute of
Computer
Technology

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Branch: CBA

Batch:61

PRACTICAL 16

❖ AIM :

Using IBM Cloud, Create Auto A.I (Artificial Intelligence) using Machine Learning Instances to train a Model for various scenarios based on Cognitive Scale Cloud Industry. Demonstrate a service called automation in Artificial Intelligence (AI) to train custom models that will be utilized by the industry use case.

Login to IBM cloud and navigate watson machine learning

The screenshot shows the IBM Cloud interface for creating a Watson Machine Learning service. The top navigation bar includes 'IBM Cloud', a search bar, and account information for 'Tushar Panchal's Account'. The main page title is 'Watson Machine Learning' with a sub-instruction: 'Deploy, manage and integrate machine learning models into your applications and services in as little as one click.' Below the title are two tabs: 'Create' (which is selected) and 'About'. On the left sidebar, there are filters for 'Type: Service', 'Provider: IBM', 'Last updated: 04/19/2024', 'Category: AI / Machine Learning', 'Compliance: HIPAA Enabled, IAM-enabled, Service Endpoint Supported', 'Location: London, Dallas, Frankfurt, Tokyo', and 'Related links'. The main content area shows a 'Create' button and a summary table for the 'Watson Machine Learning' service. The summary table includes columns for 'Summary', 'Watson Machine Learning', 'Free', 'Location: London', 'Plan: Lite', 'Service name: Watson Machine Learning-Tushar-Practical-14', and 'Resource group: Default'. The table also shows a checked checkbox for accepting license agreements and a 'Create' button. A note at the bottom states: 'Displayed prices do not include tax. Monthly prices shown are for country or location: United States'.

Name it and hit create

Watson Machine Learning Free

Summary

Watson Machine Learning Free

Location: London
Plan: Lite
Service name: Watson Machine Learning-Tushar-Practical-16
Resource group: Default

Configure your resource

Service name: **Watson Machine Learning-Tushar-Practical-16**

Select a resource group: **Default**

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

Now navigate Watson Studio

Catalog / **Watson Studio**

Develop sophisticated machine learning models using Notebooks and code-free tools to infuse AI throughout your business.

Create **About**

Type: Service

Provider: IBM

Last updated: 01/19/2023

Category: AI / Machine Learning

Compliance: HIPAA Enabled, IAM-enabled

Location: Frankfurt, London, Tokyo, Dallas

Related links: Docs

Select a location: London (eu-gb)

Select a pricing plan: Displayed prices do not include tax. Monthly prices shown are for country or location: United States

Plan	Features and capabilities	Pricing
Lite	1 authorized user 10 capacity unit-hours monthly limit Environment = # of capacity units required per hour <ul style="list-style-type: none"> • 1 vCPU + 4 GB RAM = 0.5 • 2 vCPU + 8 GB RAM = 1 • 4 vCPU + 16 GB RAM = 2 • Decision Optimization + Watson NLP = Environment + 5 • Synthetic Data Generator, 2 vCPU + 8 GB RAM = 7 (requires Watson Machine Learning) 	Free

I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

Name it and hit create

Watson Studio Free

Summary

Watson Studio
Location: London
Plan: Lite
Service name: Watson Studio-Tushar-Practical-16
Resource group: Default

Configure your resource

Service name: **Watson Studio-Tushar-Practical-16**

Select a resource group: **Default**

Tags: Examples: env:dev, version-1

Access management tags: Examples: access:dev, proj:version-1

I have read and agree to the following license agreements:
[Terms](#)

Create

Add to estimate

Here we can see the service is created now click on Launch in IBM Cloud Pak for Data

Watson Studio-Tushar-Practical-16 Active [Add tags](#)

Manage

Watson Studio in Cloud Pak for Data and watsonx

Build and deploy machine learning models on either platform. Work with foundation models on watsonx as a Service.

Launch in

- IBM Cloud Pak for Data** (Selected)
- IBM watsonx

Helpful links

- Documentation**
- Learning path**
- Videos**

IBM Watson Studio is part of IBM Cloud Pak for Data and watsonx, and serves as the AI capability of the data fabric architecture.

IBM Watson Studio in Cloud Pak for Data and watsonx
IBM Cloud Pak for Data, watsonx
Unifying platforms
IBM Cloud Base cloud infrastructure

Now give company name and mobile number than click on continue

IBM Watson Studio

Provide your information to continue

User account

Tushar Panchal's Account

Resource group

Default

Company name

gnu

Phone number

+91 9687834849

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You can withdraw your marketing consent at any time by submitting an opt-out request. Also, you may unsubscribe from receiving marketing emails by clicking the unsubscribe link in each email. More information on our processing can be found in the [IBM Privacy Statement](#).

By submitting this form, I acknowledge that I have read and understand the IBM Privacy Statement and I accept the product [Terms and Conditions](#) of this registration form.

[Continue](#)

Now select new project and click next

Welcome, Tushar!

Take a tutorial
Step through implementing a Data fabric use case in a sample project.

Work with
Create a project to prepare data models.

Quick start

- Build customer profiles with IBM Match 360 with Watson
- Catalog and govern data with IBM Knowledge Catalog
- Build and manage ML models with Watson Studio
- Query data anywhere with Watson Query

Build and manage ML models with Watson Studio

Watson Studio is a service that you use to build, deploy, and manage AI models and to optimize decisions. Work within a project to build models. Customize how you work by choosing from notebooks, graphical canvases, and no-code tools.

Get started

Sample project
Open a sample project with pre-built Watson Studio assets.

New project
Create a project and then add your own data to get started.

Deployments

No deployment spaces
After you create spaces, you'll see them here.

New deployment space

[Cancel](#) [Next](#)

Now give name, description and Cloud Object Storage than click create

Create a project

Start with a new, blank project or select from where to import an existing project.

+ New
Local file
Resource hub

Define details

Name: tushar_practical_16

Description (optional): FOR EADC PRACTICAL 16

Storage: Cloud Object Storage-tushar

Project includes integration with Cloud Object Storage for storing project assets.

Advanced settings

Cancel Create

Service is created now go in Assets than click on import assets

IBM Cloud Pak for Data

Projects / tushar_practical_16

Overview Assets Jobs Manage

0 asset All assets

Asset types

After you create assets, they are organized by asset type.

Import assets New asset

Start adding assets

To get started with assets, click New asset to create one in a tool, or Import assets to add existing ones.

Data in this project

Drop data files here or browse for files to upload

Now download this diabetes.csv

The screenshot shows a classroom interface with a sidebar on the left listing enrolled courses. The main area displays a practical assignment titled "Practical-16" by "raman preet" from April 20. It includes attachments for "steps.docx" (Word document) and "diabetes.csv" (Comma Separated Values file). There is also a "Class comments" section.

Import this .csv file here

The screenshot shows the "IBM Cloud Pak for Data" interface with the "Assets" tab selected. A "New asset" button is highlighted. A callout box contains the text: "Start adding assets" followed by "To get started with assets, click New asset to create one in a tool, or Import assets to add existing ones."

As we can see diabetes.csv file is imported

The screenshot shows the IBM Cloud Pak for Data interface. At the top, there's a navigation bar with 'IBM Cloud Pak for Data', a search bar, and account information for 'Tushar Panchal's Account'. Below the navigation bar, the 'Assets' tab is selected. On the left, there's a sidebar with '1 assets' and 'All assets' under 'Asset types'. The main area displays a table titled 'All assets' with one item: 'diabetes.csv' (CSV type), last modified 'Now' by 'Modified by you'. To the right, a panel titled 'Data in this project' has a section for uploading files.

Now click on three dots of that file and open prepare data

This screenshot is similar to the previous one, but it shows the context menu for the 'diabetes.csv' asset that was opened. The 'Prepare data' option is highlighted with a blue border. Other options visible in the menu include 'Promote to space', 'Download', and 'Delete'.

After opening As we can see Data refinery of all data like IBM, Age etc. Now click on "new step"

The screenshot shows the IBM Cloud Pak for Data Data Refinery interface. On the left, there's a sidebar with 'Steps (1)' and a 'Data source' section for 'diabetes.csv'. A tooltip for 'Convert column type' explains it converts inferred data types to decimal. The main area shows a preview of the 'diabetes.csv' data with 768 rows and 9 columns. The right side displays the 'About this asset' panel with details like name, description, and associated assets.

Pregnancies	Glucose	BloodPress...	SkinThickn...	Insulin
1	6	148	72	35
2	1	85	66	29
3	8	183	64	0
4	1	89	66	23
5	0	137	40	35
6	5	116	74	0
7	3	78	50	32
8	10	115	0	0
9	2	197	70	45
10	8	125	96	0
11	4	110	92	0
12	10	168	74	0
13	10	139	80	0
14	1	100	60	22

Than click on convert column type

This screenshot shows the same Data Refinery interface as the previous one, but the 'Convert column type' step is now highlighted in the sidebar under the 'CLEANSE' section. The main data preview and the 'About this asset' panel remain the same.

Now click on select column

The screenshot shows the IBM Cloud Pak for Data interface. At the top, there's a navigation bar with 'IBM Cloud Pak for Data' and a search bar. On the right, there are buttons for 'Upgrade', 'Profile', 'Bell', 'Tushar Panchal's Account', 'London', and 'TP'. Below the navigation bar, the project path is 'Projects / tushar_practical_16 / diabetes.csv / Data Refinery'. The main area has a title 'All Operations / Convert column type' and a sub-section 'Convert the data type of the columns to a different data type.' It includes a checkbox for 'Automatically convert the data to inferred data types' and a link 'Select the columns and data types to convert.' A blue button 'Select column' with a plus sign is visible. To the right is a data preview table with columns: Pregnancies, Glucose, BloodPressure, SkinThickness, and Insulin. The table contains 14 rows of data. On the far right, there's a sidebar titled 'About this asset' with sections for 'Name' (diabetes.csv_flow), 'Description' (What is the purpose of this Data Refinery flow?), 'Asset details' (Steps: 1), and 'Associated assets' (Source: diabetes.csv, Target: diabetes_csv_shaped). At the bottom, there are 'Cancel' and 'Apply' buttons, along with a configuration dropdown and status information: 'Viewing: 768 rows, 9 columns' and 'Full data set: 768 rows, 9 columns'. The status also indicates 'Last modified Not yet saved' and 'Created on Not yet saved'.

Column select outcome and type:- “Boolean” than click Apply

The screenshot shows the IBM Cloud Pak for Data interface. At the top, there's a navigation bar with 'IBM Cloud Pak for Data', a search bar, and account information for 'Tushar Panchal's Account'. Below the navigation is a breadcrumb trail: 'Projects / tushar_practical_16 / diabetes.csv / Data Refinery'. The main area is titled 'All Operations / Convert column type'. It displays a code template for adding a step, a 'Data' tab showing an 'Outcome' column with 'Integer' type, and a preview of the data rows. On the right, there's a sidebar for 'About this asset' with sections for 'Name' (diabetes.csv_flow), 'Description' (What is the purpose of this Data Refinery flow?), 'Asset details' (Steps: 1), and 'Associated assets' (Source: diabetes.csv, Target: diabetes_csv_shaped). At the bottom, there are buttons for 'Cancel' and 'Apply', along with a status bar showing 'Viewing: 768 rows, 9 columns'.

As we can see outcome in boolean value in true and false

The screenshot shows the IBM Cloud Pak for Data Data Refinery interface. On the left, there's a sidebar with 'Steps (2)' and two sections: '1. Convert column type' and '2. Convert column type'. The main area displays a data preview with columns: Insulin, BMI, DiabetesPe..., Age, and Outcome. The data rows range from 1 to 14. The sidebar on the right provides 'About this asset' details: Name (diabetes.csv_flow), Description (What is the purpose of this Data Refinery flow?), Asset details (Steps: 2), Associated assets (Source: diabetes.csv, Target: diabetes_csv_shaped), and Last modified (Not yet saved). It also shows Created on (Not yet saved).

Now click on save data refinery flow to save the changes

This screenshot is identical to the previous one, but it includes a 'Save Data Refinery flow' button in the top right corner of the main interface area. The rest of the interface, including the sidebar and the data preview, remains the same.

New asset is created by changing and saving the diabetes.csv

IBM Cloud Pak for Data

Search in your workspaces

Upgrade Tushar Panchal's Account London TP ::

Projects / tushar_practical_16

Overview Assets Jobs Manage

Import assets New asset +

2 assets

All assets

Name	Last modified	⋮
diabetes.csv_flow Data Refinery flow	Now Modified by you	⋮
diabetes.csv CSV	5 minutes ago Modified by you	⋮

Asset types

- > Data 1
- > Flows 1

Data in this project

Drop data files here or browse for files to upload

Now go on prepare data again

IBM Cloud Pak for Data

Search in your workspaces

Upgrade Tushar Panchal's Account London TP ::

Projects / tushar_practical_16

Overview Assets Jobs Manage

Import assets New asset +

2 assets

All assets

Name	Last modified	⋮
diabetes.csv_flow Data Refinery flow	Now Modified by you	⋮
diabetes.csv CSV	5 minutes ago Modified by you	⋮

Asset types

- > Data 1
- > Flows 1

Prepare data

Promote to space

Download

Delete

Data in this project

Drop data files here or browse for files to upload

Click on filter data

The screenshot shows the IBM Cloud Pak for Data Data Refinery interface. On the left, there's a sidebar with various operations like 'CLEANSE' and 'COMPUTE'. The main area displays a table with columns: Pregnancies, Glucose, BloodPressure, SkinThickness, and Insulin. The table has 768 rows and 9 columns. On the right, there's an 'About this asset' panel with details such as Name: diabetes.csv_flow, Description: What is the purpose of this Data Refinery flow?, Asset details: Steps: 1, Associated assets: Source: diabetes.csv, Target: diabetes_csv_shaped, and Last modified: Not yet saved.

Now set column Age and operator “Is between two number” and Add 10,30 age and click on apply

The screenshot shows the IBM Cloud Pak for Data Data Refinery interface with a 'Filter' step selected. In the 'CONDITIONS (1)' section, a condition is being configured for the 'Age' column with the operator 'Is between two numbers' and the values '10,30'. The 'Apply' button is highlighted at the bottom.

As we can see in below screen all in between 20,30 age is display in below screenshot

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / diabetes.csv / Data Refinery

Upgrade ⚡ ⚡ Tushar Panchal's Account London TP ⋮

Steps (2) × Use a code template to add a step

Data source diabetes.csv

1. Convert column type Automatically converted one or more columns to inferred data types. Strings that are converted to decimal use a dot (.) for the decimal symbol. Auto-generated

2. Filter Filtered by: Age where value is between two numbers 10,30 Just added

	SkinThickness	Insulin	BMI	DiabetesP...	Age
	Integer	Integer	Decimal	Decimal	Integer
1	23	94	28.1	0.167	21
2	0	0	25.6	0.201	30
3	32	88	31	0.248	26
4	0	0	35.3	0.134	29
5	0	0	37.6	0.191	30
6	41	235	39.3	0.704	27
7	35	0	29	0.263	29
8	15	140	23.2	0.487	22
9	36	245	31.6	0.851	28
10	11	54	24.8	0.267	22
11	0	0	19.9	0.188	28
12	42	0	38.2	0.503	27
13	25	70	34	0.271	26
14	20	n	42	1.902	25

New step + Configure Viewing: 417 rows, 9 columns Full data set: 768 rows, 9 columns

About this asset

Name diabetes.csv_flow

Description What is the purpose of this Data Refinery flow?

Asset details Steps: 2

Associated assets

- Source: diabetes.csv
- Target: diabetes_csv_shaped

Last modified Not yet saved

Created on Not yet saved

Now go back on asset and click on “new asset”

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16

Upgrade ⚡ ⚡ Tushar Panchal's Account London TP ⋮

Overview Assets Jobs Manage

Import assets New asset

All assets

Name	Last modified
diabetes.csv_flow	3 minutes ago Modified by you
diabetes.csv	8 minutes ago Modified by you

2 assets

All assets

Asset types

Data flows

Data in this project

Drop data files here or browse for files to upload

After opening new asset select automated builders and open AutoAI

The screenshot shows the 'New asset' creation interface in the IBM Cloud Pak for Data. The 'Tool type' dropdown is set to 'Automated builders', and 'AutoAI' is selected. A description of AutoAI is visible on the right.

Now give a name and click on “Associate a machine learning service instance”

The screenshot shows the 'Create an AutoAI experiment' form. The 'Name' field is filled with 'Diabetes_test14'. The 'Define configuration' section indicates 'No Machine Learning service instances associated with your project.'

Now select the check box then click Associate

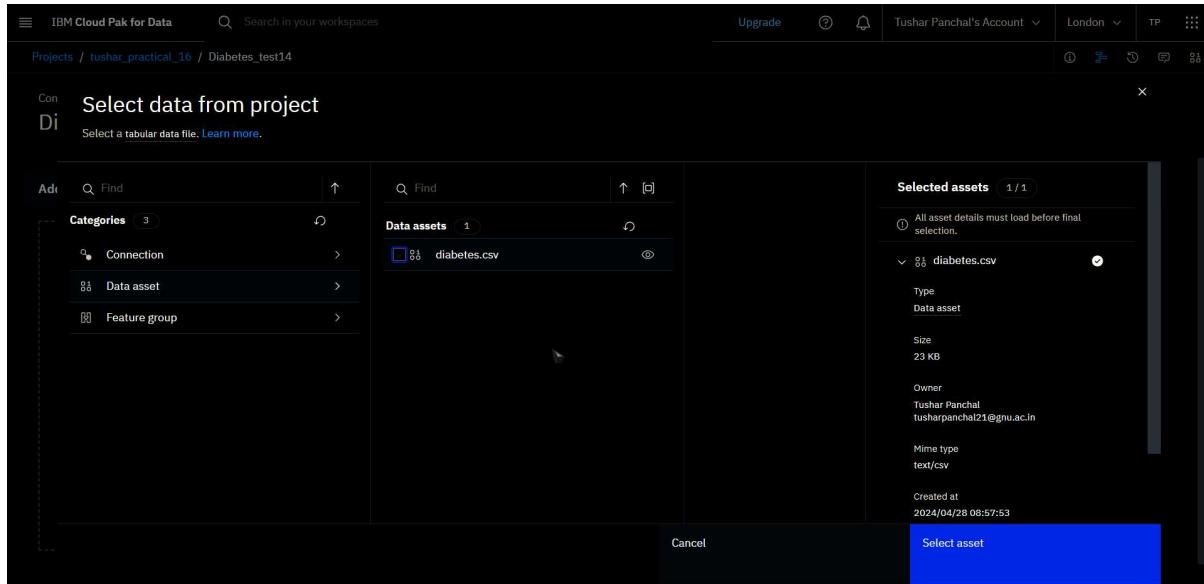
As we can see in below screenshot that configuration is defined than click on create

The screenshot shows the 'Create an AutoAI experiment' page. In the 'Define details' section, the name is set to 'Diabetes_test14'. In the 'Define configuration' section, the environment definition is set to 'Large: 8 CPU and 32 GB RAM'. The 'Create' button is highlighted in blue.

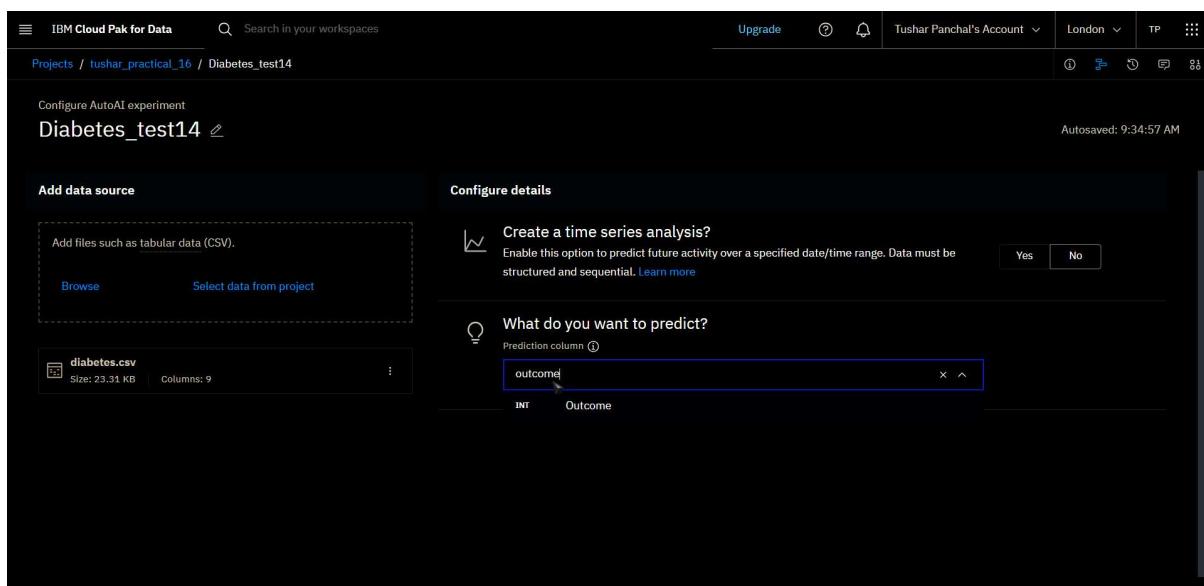
AutoAI is configured Now click on “select data from project”

The screenshot shows the 'Configure AutoAI experiment' step for 'Diabetes_test14'. It features a central area for adding data sources with the text 'Drop data files here or browse for files to upload' and a 'Select data from project' button below it.

After opening that click on data asset and select diabetes.csv file then select asset



Now select No and select “outcome” for what do we cant to predict



Now open the Experiment settings

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / Diabetes_test14

Upgrade Tushar Panchal's Account London TP ⋮

Prediction column: Outcome (INT) Data source: diabetes.csv AM

Experiment settings

Prediction

Data source

Runtime

Prediction settings

General Fairness Time series

Prediction type

Change the prediction type based on data in the prediction column. Changing the type changes other prediction settings.

- Binary classification** (selected): Classify data into categories. Choose this if your prediction column contains two distinct categories.
- Multiclass classification**: Classify data into categories. Choose this if your prediction column contains multiple distinct categories.
- Regression**: Predict values from a continuous set of values. Choose this if your prediction column contains a large number of values.

Time series forecast: Forecast future values in a series. Data must be structured and time-ordered.

Time series anomaly prediction: Predict whether future values in a series are anomalous.

Cancel **Save settings**

Select the Score and run time

IBM Cloud Pak for Data

Search in your Workspaces

Projects / tushar_practical_16 / Diabetes_test14

Upgrade Tushar Panchal's Account London TP ⋮

Prediction column: Outcome (INT) Data source: diabetes.csv AM

Experiment settings

Prediction

Data source

Runtime

General Fairness Time series

- Precision
- Recall
- F₁
- Log loss

Optimized algorithm selection

Choose how AutoAI will select the algorithms to use. You can optimize for those with the best score, or optimize for those with the highest score in the shortest run time.

Score only

Score and run time

Algorithms to include 11 / 12

Select which of the following algorithms is to be considered when the experiment is run. The list of algorithms are based on the selected prediction type.

Cancel **Save settings**

Set 2 that algorithms to use

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / Diabetes_test14

Upgrade ⚡ ⚡ Tushar Panchal's Account London TP ⋮

Experiment settings

Prediction

General Fairness Time series

Snap Logistic Regression

Snap Random Forest Classifier

Snap SVM Classifier

XGB Classifier

Algorithms to use 2 / 4

AutoAI will test the specified algorithms and use the top performers to create model pipelines. Choose how many top algorithms to apply. Each algorithm generates 4-5 pipelines and more algorithms increase the runtime.

1 2 3 4

CANCEL Save settings

Now go back click on “Run experiment”

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / Diabetes_test14

Configure AutoAI experiment

Autosaved: 9:41:16 AM

Diabetes_test14 ⌂

Add data source

Add files such as tabular data (CSV).

Browse Select data from project

diabetes.csv Size: 23.31 KB Columns: 9

Configure details

Enable this option to predict future activity over a specified date/time range. Data must be structured and sequential. [Learn more](#)

What do you want to predict?

Prediction column Outcome

PREDICTION TYPE Binary Classification

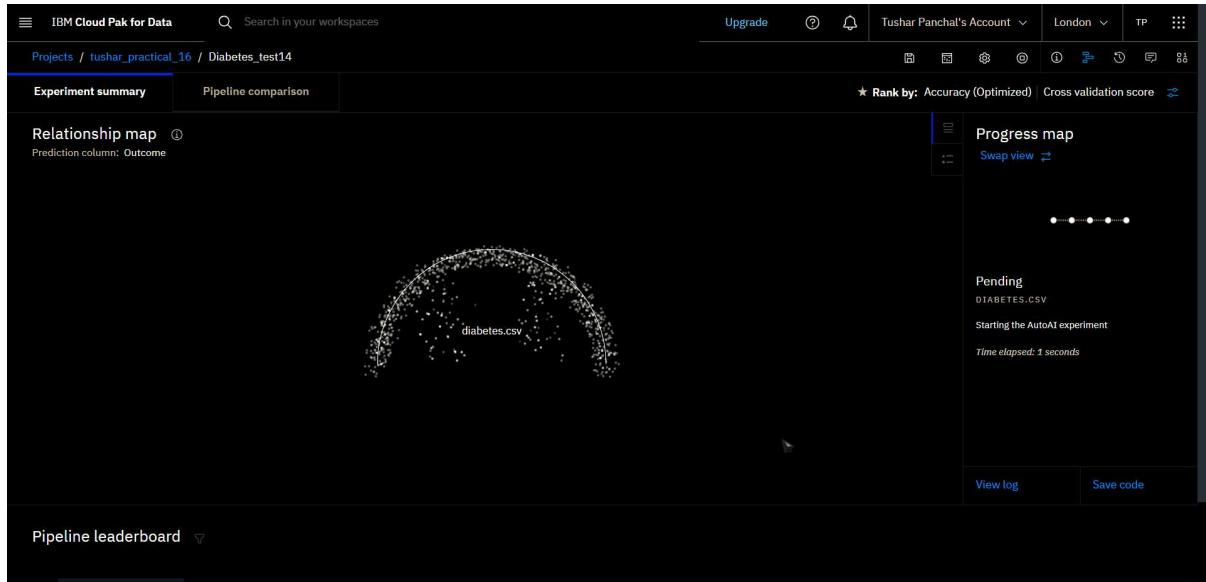
POSITIVE CLASS 1

CUH remaining: 20 CUH

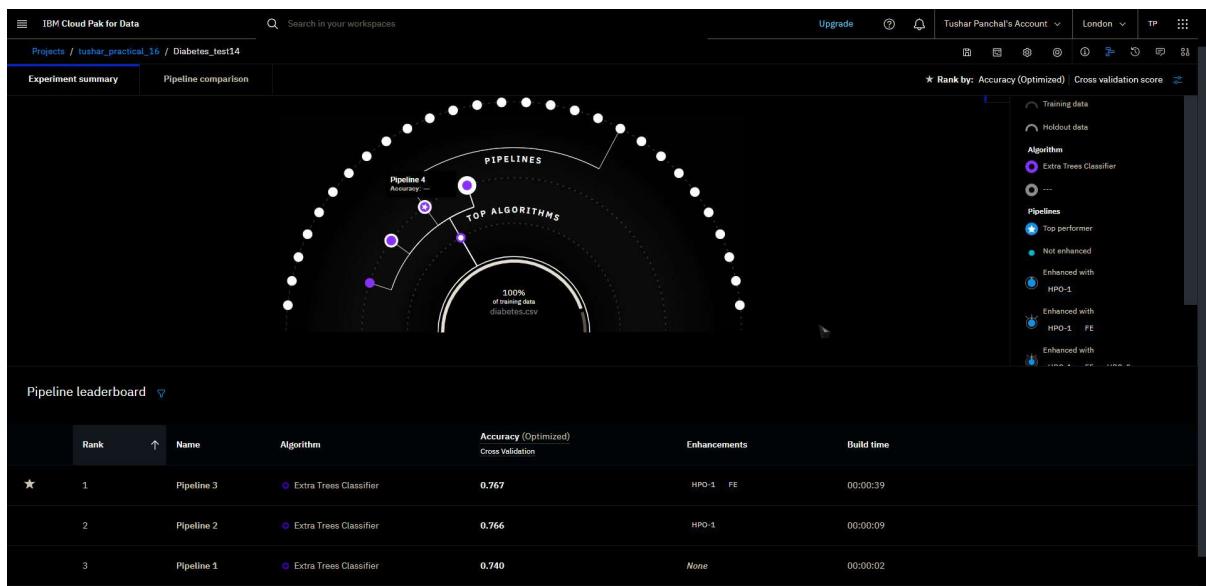
OPTIMIZED FOR Accuracy & run time

Experiment settings Run experiment ⚡ ⋮

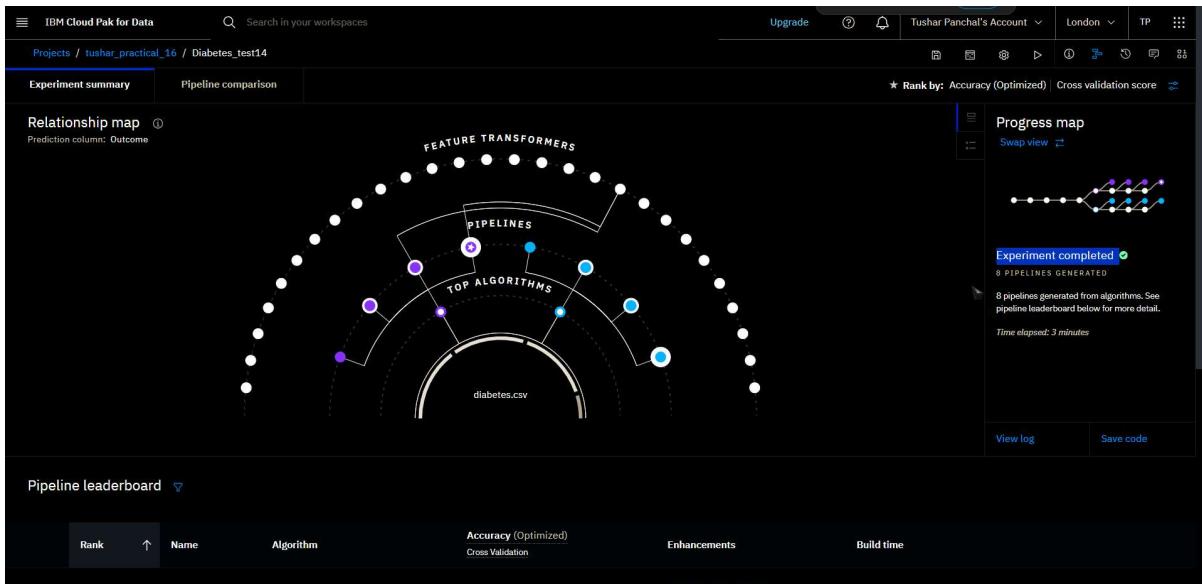
We can see this interface after “run experiment”



reading data from .csv file



We can see in below screenshot the experiment is completed

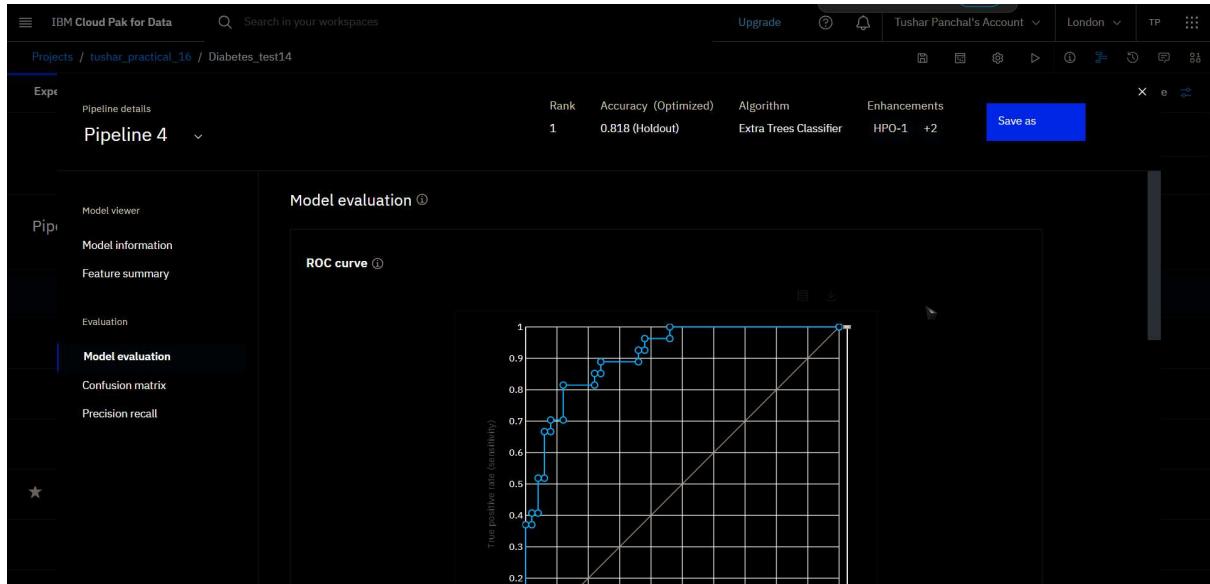


Now scroll down and select pipeline 4

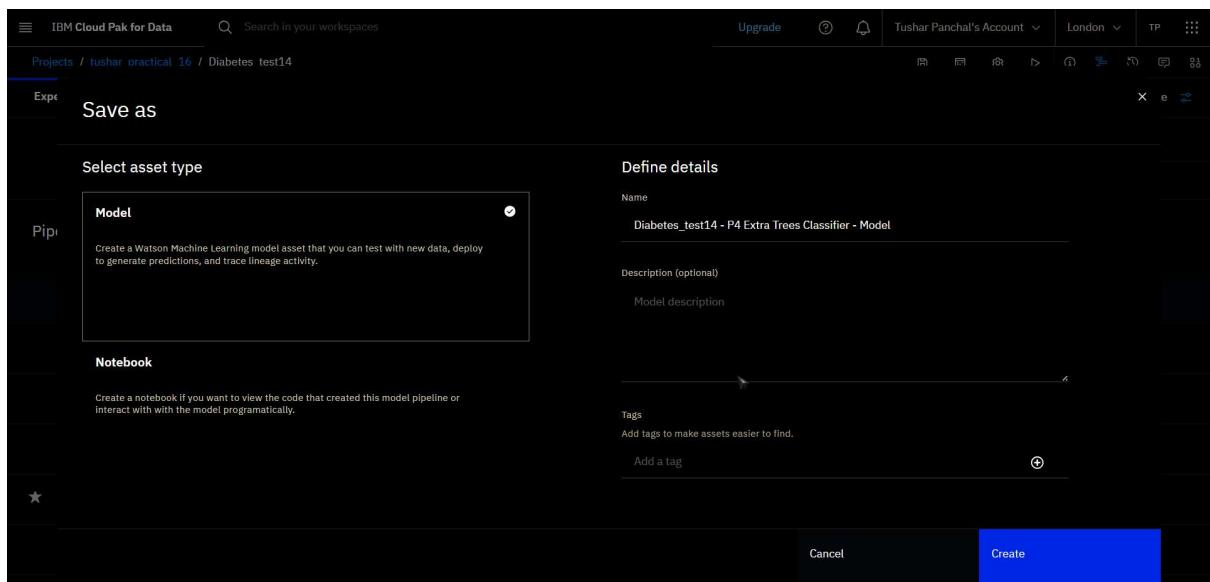
The screenshot shows the same Pipeline leaderboard as above, but with Pipeline 4 highlighted by a cursor. The table data remains the same:

Rank	Name	Algorithm	Accuracy (Optimized) Cross Validation	Enhancements	Build time
1	Pipeline 4	Extra Trees Classifier	0.771	HPO-1 FE HPO-2	00:00:51
2	Pipeline 3	Extra Trees Classifier	0.767	HPO-1 FE	00:00:39
3	Pipeline 2	Extra Trees Classifier	0.766	HPO-1	00:00:09
4	Pipeline 1	Extra Trees Classifier	0.740	None	00:00:02
5	Pipeline 7	LGBM Classifier	0.753	HPO-1 FE	00:00:39
6	Pipeline 6	LGBM Classifier	0.753	HPO-1	00:00:10
8	Pipeline 5	LGBM Classifier	0.735	None	00:00:01

Go in to save as



After that select model and add Defined detail Click on create



Click on view in project

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / Diabetes_test14

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Expc Pipeline details Pipeline 4

Rank Accuracy (Optimized) Algorithm Enhancement

1 0.818 (Holdout) Extra Trees Classifier HPO-1

Saved model successfully. Diabetes_test14 - P4 Extra Trees Classifier - Model was successfully saved to tushar_practical_16.

View in project

Pip Model viewer Model information Feature summary

Evaluation Model evaluation Confusion matrix Precision recall

ROC curve

IBM Cloud Pak for Data

Search in your workspaces

Projects / tushar_practical_16 / Diabetes_test14 - P4 Extra Trees C

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Promote to deployment space

About this asset

Name Diabetes_test14 - P4 Extra Trees Classifier - Model

Description No description provided.

Asset Details Type: wml-hybrid_0.1 Model ID: e582778b-d434-48a6-b... Software specification: hybrid_0... Hybrid pipeline software specifications: autoai-kb_rt23.1-py3.10

Tags Add tags to make assets easier to find.

Last modified Now by Tushar Panchal

Created Apr 28, 2024 by Tushar Panchal

Click on promote to deployment space

Upgrade ⚡ ⚡ Tushar Panchal's Account London TP ⋮

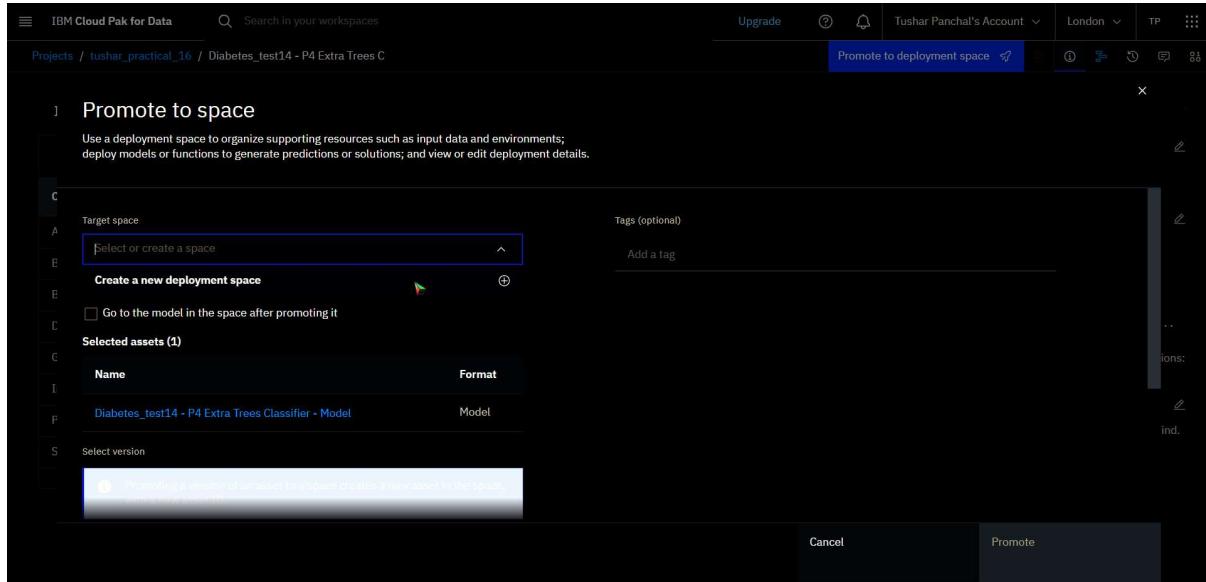
Promote to deployment space

About this asset

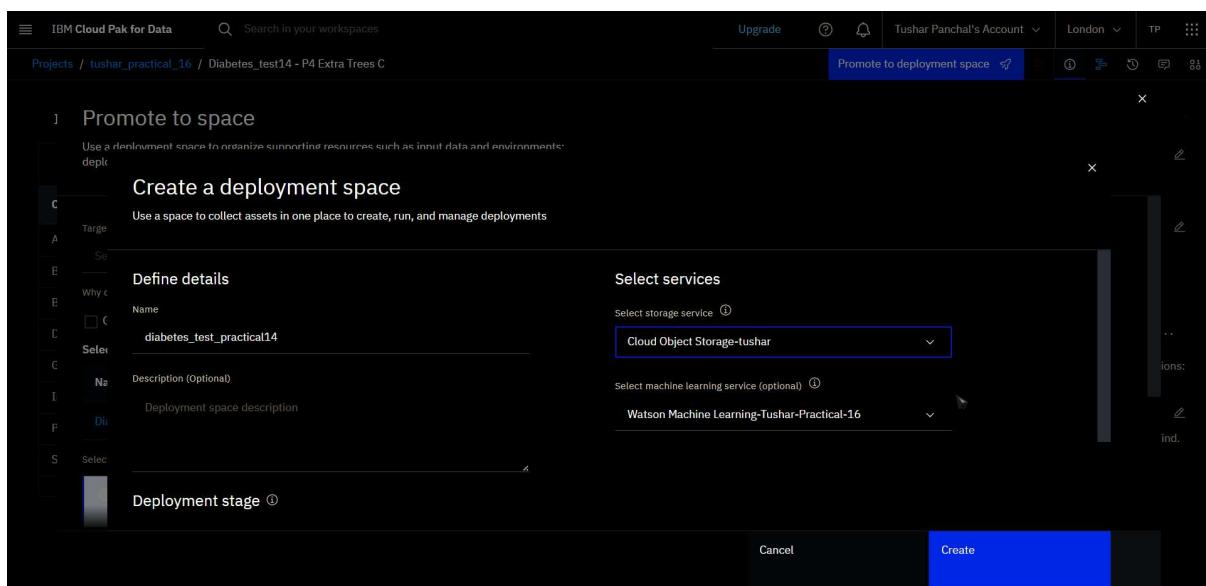
Name Diabetes_test14 - P4 Extra Trees Classifier - Model

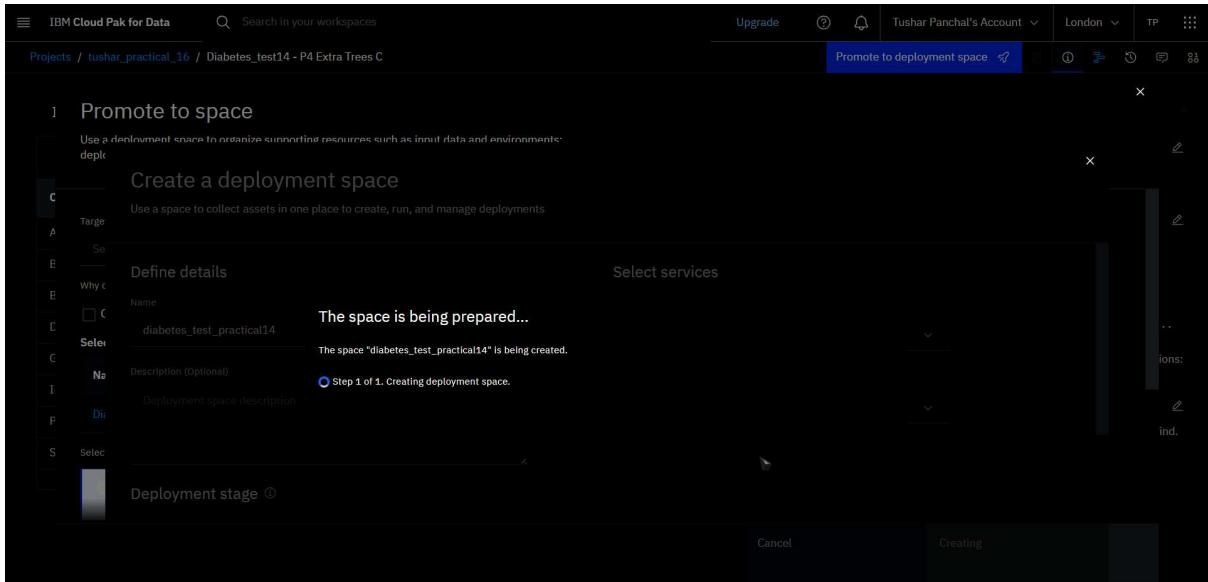
Description No description provided.

Click on target space and create a new deployment space

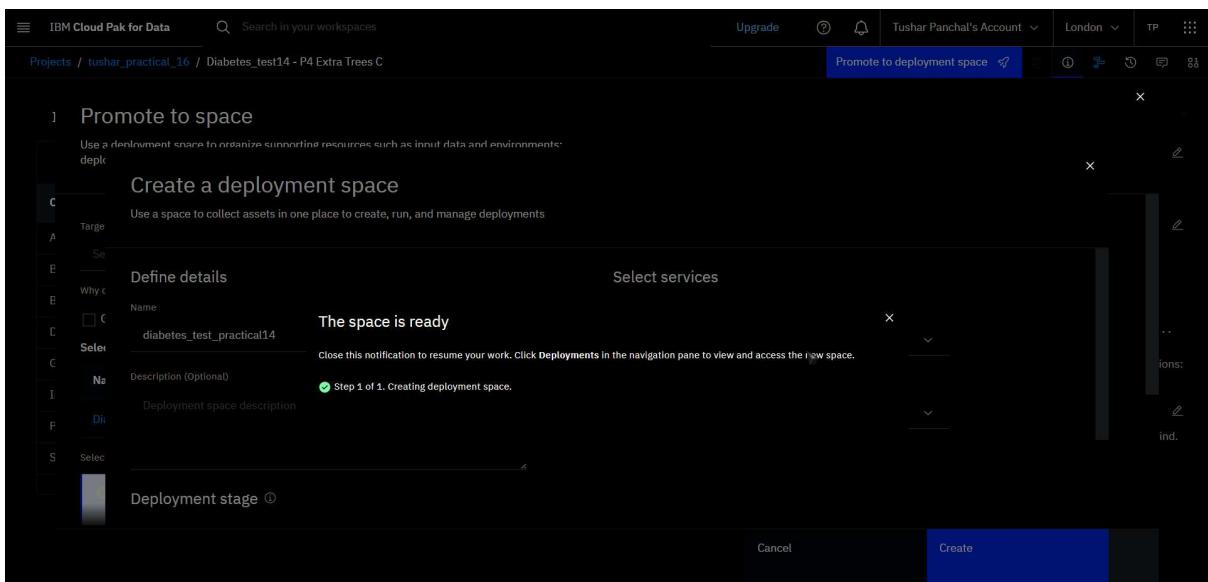


Give "name", "select machine learning service" Click create

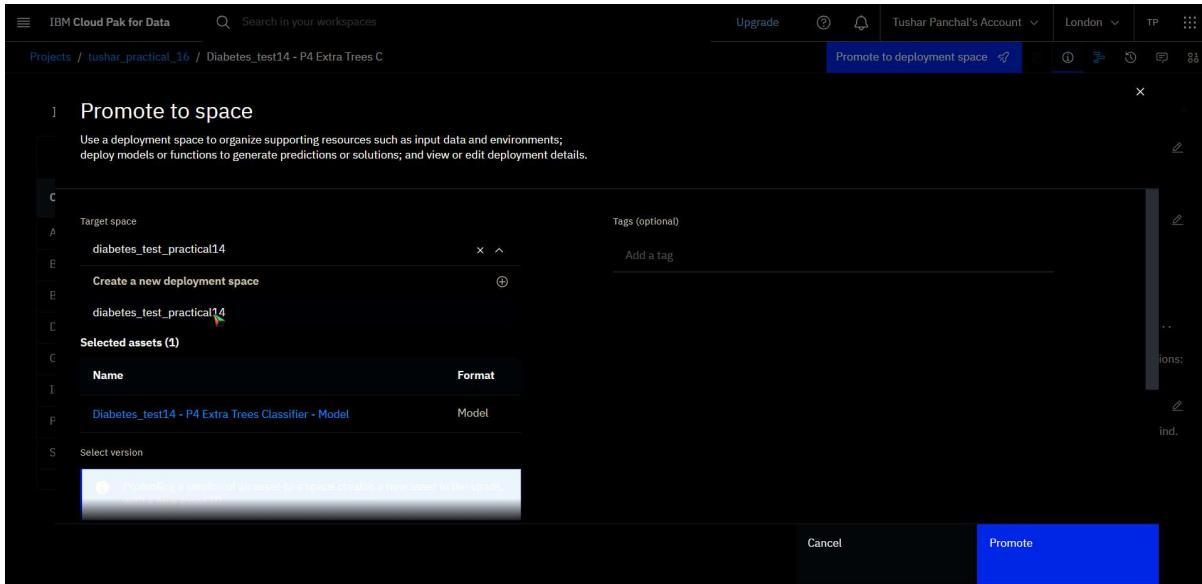




Space is ready



Select the space we create and Now click on on promote



Its showing successfully promoted and click on deployment space

Now we can see the asset click on three dots and deploy

The screenshot shows the 'Assets' tab in the IBM Cloud Pak for Data interface. On the left, there's a sidebar with '1 asset' (All assets) and 'Asset types' (Models). The main area displays a table titled 'Assets' with one item: 'Diabetes_test14 - P4 Extra Trees Classifier - Model'. The table has columns for 'Name' and 'Last modified'. The asset was last modified 37 seconds ago by Tushar Panchal (You). At the bottom right of the table, there are 'Import assets' and 'Import' buttons.

Give deployment name and click on create

The screenshot shows the 'Create a deployment' dialog box. Under 'Deployment type', 'Online' is selected (indicated by a blue border). The 'Batch' option is also shown. In the 'Name' field, the value 'diabetes_practical16' is entered. At the bottom right of the dialog, there are 'Cancel' and 'Create' buttons, with 'Create' being highlighted in blue.

Click deployment that we created "diabetes"

Deployments / diabetes_test_practical14

Deployments Model details

Name	Type	Status	Tags	Last modified
diabetes_practical16	Online	Deployed		17 seconds ago Tushar Panchal (You)

New deployment

Online deployment ready
The online deployment diabetes_practical16 in space diabetes_test_practical14 is ready to accept requests

Created Today 9:53 AM
Apr 28, 2024, 9:51 AM

Type wml-hybrid_0.1

Model ID 9aa7edc0-6524-4ab4-b032-76b6...

Software specification hybrid_0.1

Hybrid pipeline software specifications autoai-kb_rt23.1-py3.10

Description No description provided.

Tags Add tags to make assets easier to find.

Source asset details

As we can see its deployed

Deployments / diabetes_test_practical14 / Diabetes_test14 - P4 Extra Trees... /

diabetes_practical16 Deployed Online

API reference Test

Direct link

Private endpoint

https://private.eu-gb.ml.cloud.ibm.com/v4/deployments/7ce9f577-100c-4f37-83f6-726406dbbf2/predictions

Bearer <token>

Public endpoint

https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/7ce9f577-100c-4f37-83f6-726406dbbf2/predictions?version=2021-05-01

Learn more about the 2021-05-01 version query parameter

Code snippets

cURL Java JavaScript Python Scala

NOTE: you must set \$API_KEY below using information retrieved from your IBM Cloud account (https://eu-gb.dataplatform.cloud.ibm.com/docs/cont...

```
curl --insecure -X POST --header "Content-Type: application/x-www-form-urlencoded" --header "Accept: \napplication/json" --data-urlencode "grant_type=urn:ibm:params:oauth:grant-type:apikey" \n--data-urlencode "apikey=$API_KEY" "https://iam.cloud.ibm.com/identity/token"
```

diabetes_practical16

Created Apr 28, 2024, 9:53 AM

Updated Apr 28, 2024, 9:53 AM

Deployment ID 7ce9f577-100c-4f37-83f6-726406dbbf2

Software specification hybrid_0.1

Hybrid pipeline software specifications autoai-kb_rt23.1-py3.10

Copies 1

Serving name No serving name.

Description No description provided.

Tags Add tags to make assets easier to find.

Click on test

Deployments / diabetes_test_practical14 / Diabetes_test14 - P4 Extra Trees... /

diabetes_practical16 Deployed Online

API reference Test

Enter input data

Text JSON

Enter data manually or use a CSV file to populate the spreadsheet. Max file size is 50 MB.

Download CSV template ↴ Browse local files ↞ Search in space ↞

	Pregnancies (double)	Glucose (double)	BloodPressure (double)	SkinThickness
1				

Start typing or drag and drop a CSV file.

I Added data for 5 row than click on predict

The screenshot shows the IBM Cloud Pak for Data interface. At the top, there's a navigation bar with 'IBM Cloud Pak for Data', a search bar, and account information for 'Tushar Panchal's Account'. Below the navigation bar, the path 'Deployments / diabetes_test_practical14 / Diabetes_test14 - P4 Extra Trees... /' is visible. The main content area displays the API 'diabetes_practical16' which is 'Deployed Online'. There are tabs for 'API reference' and 'Test'. Under the 'Test' tab, there's a section titled 'Enter input data' with 'Text' and 'JSON' options. A CSV template is provided for input. A table shows sample data with 6 rows and 8 columns. A 'Predict' button is at the bottom right.

	Pregnancies (double)	Glucose (double)	BloodPressure (double)	SkinThickness (double)	Insulin (double)	BMI (double)	DiabetesPedigreeFunction (double)	Age (double)
1	6	148	72	36	0	33.6	0.625	60
2	1	86	66	29	0	26.6	0.332	50
3	8	183	64	0	0	23.3	0.124	40
4	1	89	66	23	26	28.1	0.157	30
5	0	137	40	35	189	43.1	7.777	23
6								

As we can see in below screenshot its showing prediction result that i give in input as row

The screenshot shows the 'Prediction results' page for the 'diabetes_practical16' API. It displays a donut chart indicating '5 Records' with 4 purple segments and 0 blue segments. Below the chart, a table lists the prediction results for each record. The table has two columns: 'Prediction' and 'Confidence'. The 'Prediction' column shows values 1, 0, 1, 0, 0, 6, 7, 8, 9, 10, and 11. The 'Confidence' column shows percentages: 59%, 84%, 64%, 87%, 56%, and several empty rows for records 6 through 11. There are tabs for 'API reference', 'Text', and 'Enter'. A 'Download JSON file' button is at the bottom right.

Prediction	Confidence
1	59%
0	84%
1	64%
0	87%
0	56%
6	
7	
8	
9	
10	
11	