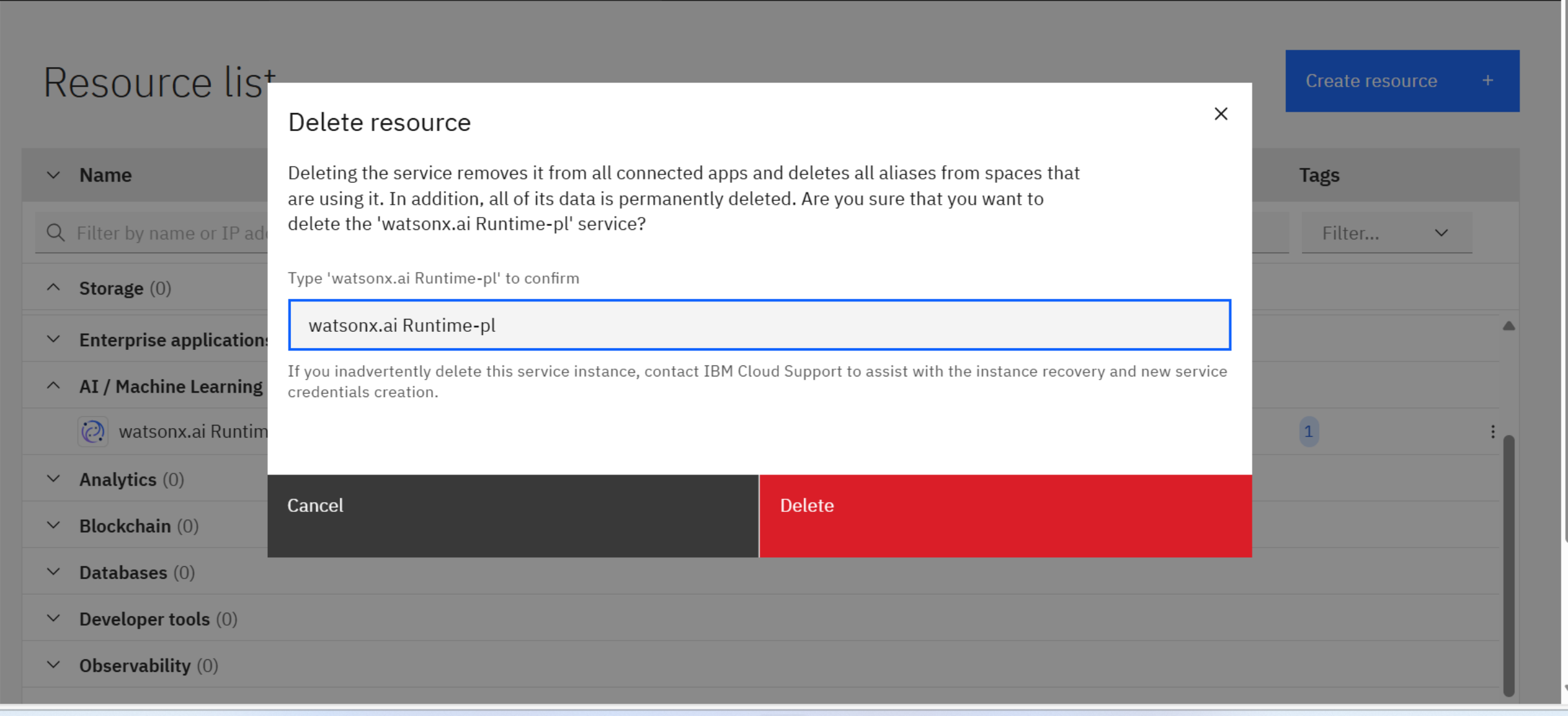

Resource list
Create resource +
Name
Tags
Filter by name or IP ad
Filter...
Storage (0)
Enterprise application
AI / Machine Learning
watsonx.ai Runtim
1
Analytics (0)
Blockchain (0)
Databases (0)
Developer tools (0)
Observability (0)
Delete resource
Deleting the service removes it from all connected apps and deletes all aliases from spaces that are using it. In addition, all of its data is permanently deleted. Are you sure that you want to delete the 'watsonx.ai Runtime-pl' service?
Type 'watsonx.ai Runtime-pl' to confirm
watsonx.ai Runtime-pl
If you inadvertently delete this service instance, contact IBM Cloud Support to assist with the instance recovery and new service credentials creation.
Cancel
Delete

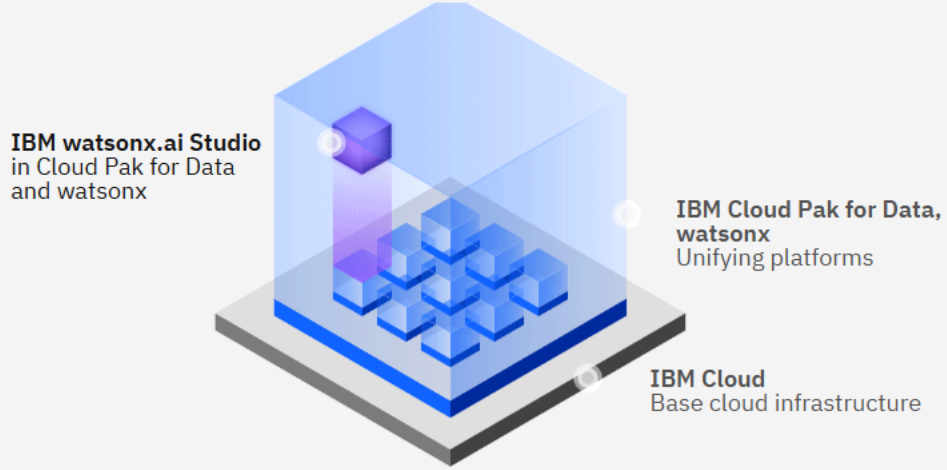
Manage

Plan

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

Build and manage ML models

with watsonx.ai Studio

watsonx.ai 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 with watsonx.ai Studio by provisioning a

Get started

Provision watsonx.ai Studio

Create an instance of watsonx.ai Studio from the service catalog.

Provision watsonx.ai Runtime

Create an instance of watsonx.ai Runtime from the service catalog.

Cancel

Next

Build and manage ML models

with watsonx.ai Studio

watsonx.ai 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 watsonx.ai Studio assets.

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

Cancel

Next

Create a project

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

+ New

Local file

Sample

Define details

Name

PM project

Description (optional)

Based on given Characteristics it can classify the given project is either a road construction or bridge construction project.

Tags (optional)

Cancel

Create

Project

- General
- Access control
- Environments
- Resource usage
- **Services & integrations**

Tools

- Pipeline

Services & integrations

IBM services | Third-party integrations

Associate IBM Cloud services with this project to add tools, compute environments, or other capabilities.Learn more.

Find services

Associate service +

Name	Service type

Associate service

Choose an existing or add a new service to associate with your project.

1 × Default ⌄ 2 × Locations ⌄

Find services

New service +

	Name	Type	Plan	Location	Status	Group
☑	watsonx.ai Runtime-ah ⓘ	watsonx.ai Runtime	Lite	London	Not associated	Default

Cancel

Associate

Build machine learning models automatically

Define the details to create an AutoAI experiment asset and open it in the AutoAI tool.

+ New

Sample

Define details

Name

ML model

Description (optional)

To classify the projects automatically

Define configuration

watsonx.ai Runtime service instance

watsonx.ai Runtime-ah

Environment definition

Large: 8 CPU and 32 GB RAM

This environment definition consumes **20 capacity units** training. For details, see watsonx.ai Runtime plans.

Cancel

Back

Create

Configure AutoAI experiment

ML model

Autosaved: 7:10:18 pr

Add data source

Add files such as tabular data (CSV).

Browse | Select from project

PMGSY_DATASET.csv
Size: 170.49 KB | Columns: 15

Configure details

Create a time series analysis?

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

Yes | No

What do you want to predict?

Prediction column

Prediction column: PMGSY_SCHEME

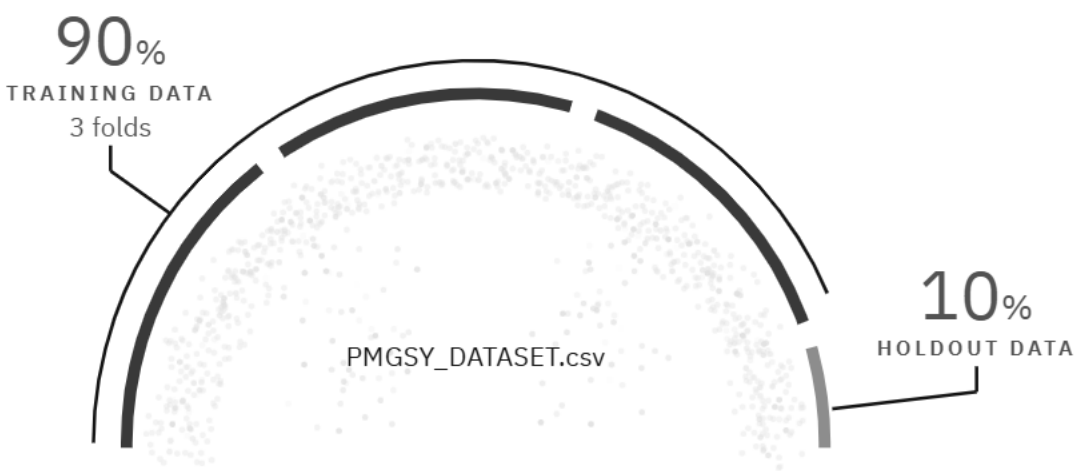
CUH remaining: 17.27 CUH

Experiment summary | Pipeline comparison

★ Rank by: Accuracy (Optimized) | Cross validation score

Relationship map

Prediction column: PMGSY_SCHEME



Progress map

Swap view

Splitting data

PMGSY_DATASET.CSV

Splitting holdout and training data

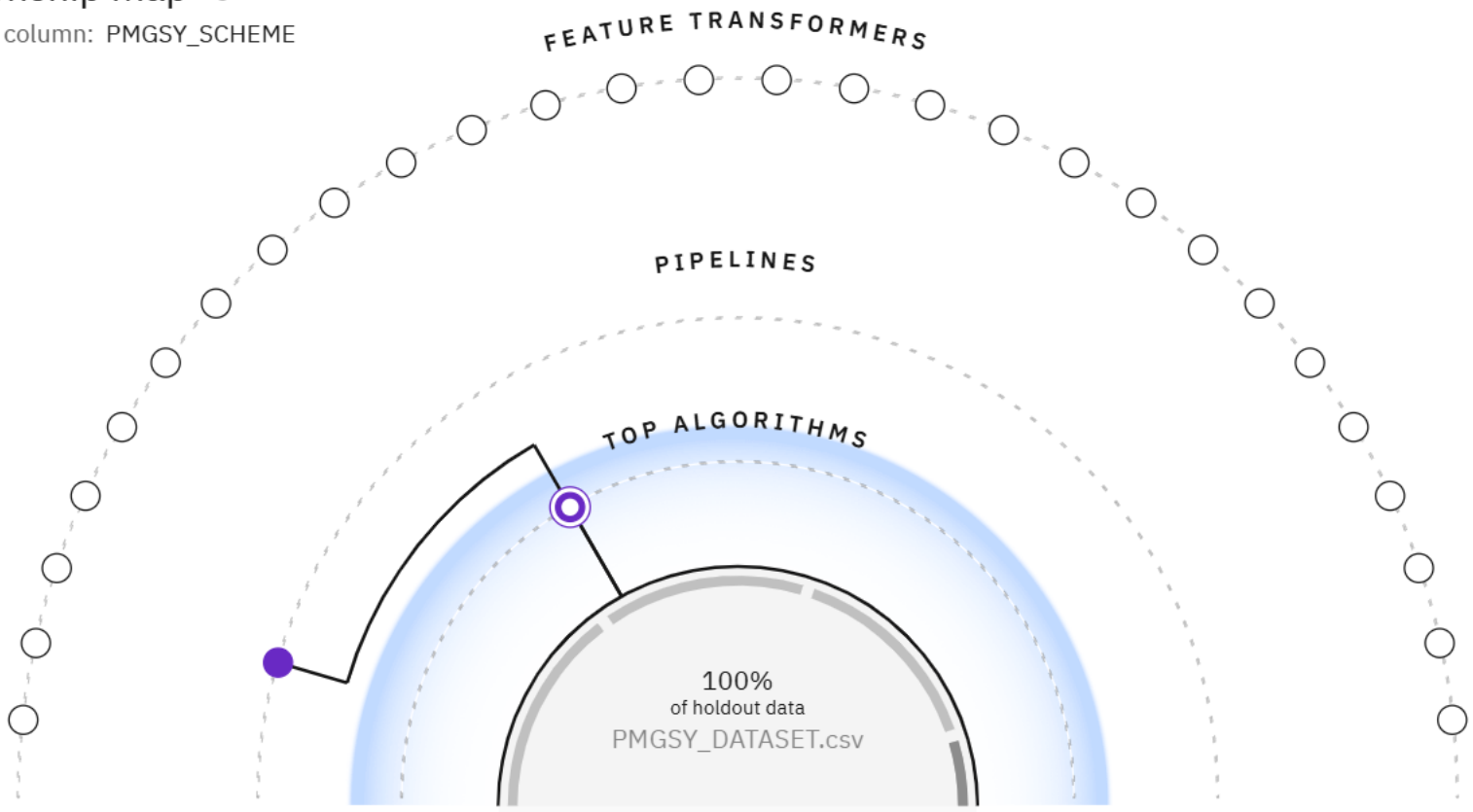
Time elapsed: 91 seconds

Experiment summary | Pipeline comparison

★ Rank by: Accuracy (Optimized) | Cross validation score

Relationship map

Prediction column: PMGSY_SCHEME



Progress map

Swap view

Evaluating pipeline

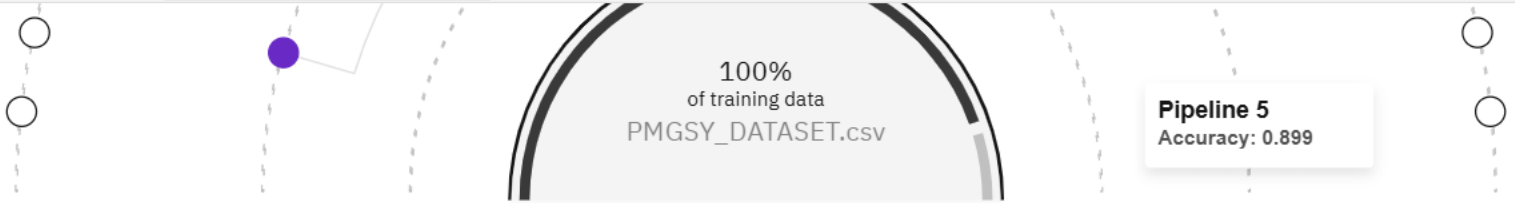
SNAP RANDOM FOREST CLASSIFIER

Testing holdout data and ranking pipeline based on optimized metric.

Time elapsed: 2 minutes

Experiment summary | Pipeline comparison

★ Rank by: Accuracy (Optimized) | Cross validation score



View log | Save code

Pipeline leaderboard

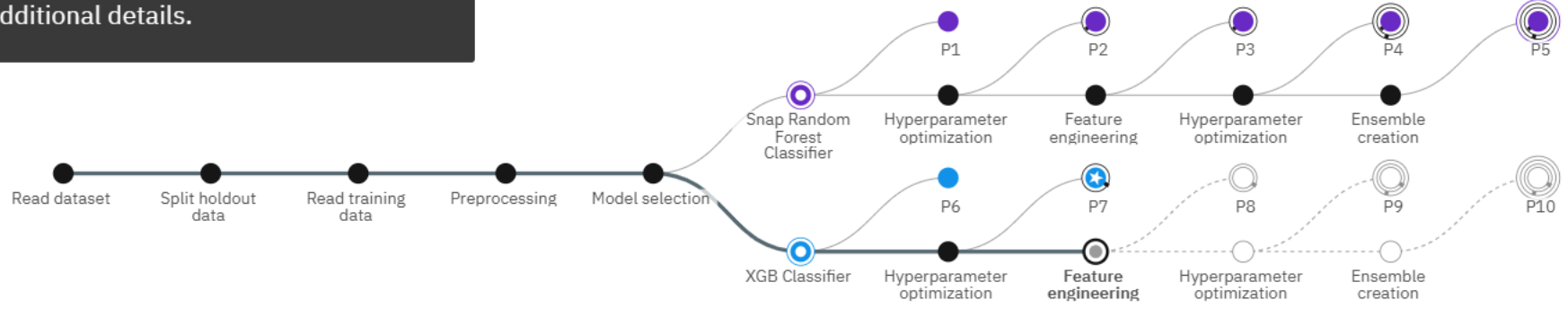
	Rank	Name	Algorithm	Specialization	Accuracy (Optimized) Cross Validation	Enhancements	Build time
★	1	**Pipeline 4**	Snap Random Forest Classifier		0.899	HPO-1 FE HPO-2	00:00:32
	2	**Pipeline 3**	Snap Random Forest Classifier		0.899	HPO-1 FE	00:00:24
	3	**Pipeline 2**	Snap Random Forest Classifier		0.897	HPO-1	00:00:06

Experiment summary | Pipeline comparison

★ **Rank by:** Accuracy (Optimized) | Cross validation score

Progress map

View the steps for creating model pipelines. Hover on any node for additional details.



Relationship map

Swap view

Feature engineering

XGB CLASSIFIER

Started feature engineering for pipeline P8

Time elapsed: 3 minutes

View log | Save code

Pipeline leaderboard

Pipeline details

Pipeline 8

Rank	Accuracy (Optimized)	Algorithm	Enhancements
1	0.918 (Holdout)	XGB Classifier	HPO-1 FE

Save as

Model viewer

- Model information
- Feature summary

Evaluation

- Model evaluation
- **Confusion matrix**
- Precision recall
- Threshold

Confusion matrix

View

Multi-class

Observed	Predicted					
	PM-JANMAN	PMGSY-I	PMGSY-II	PMGSY-III	RCPLWEA	Percent correct
PM-JANMAN	5	0	0	0	0	100.0%
PMGSY-I	0	69	1	1	0	97.2%

Promote to space

Promote the asset to a deployment space to deploy the asset or to support a deplo

Create a deployment space

Use a space to collect assets in one place to create, run, and manage deployments

+ New

Local file

Define details

Name

PMGSY

Description (Optional) 0/100

What's the purpose of this space?

Cancel

Create

Deployments | **Model details**

Input (1)

Column	Type
COLUMN15	double
COST_OF_WORKS_SANCTIONED	double
DISTRICT_NAME	other
EXPENDITURE_OCCURED	double
LENGTH_OF_ROAD_WORK_BALANCE	double
LENGTH_OF_ROAD_WORK_COMPLETED	double
LENGTH_OF_ROAD_WORK_SANCTIONED	double
NO_OF_BRIDGES_BALANCE	double

COLUMN15

About this asset

Name

P8 - XGB Classifier: ML model

Description

No description provided.

Asset Details

Type: wml-hybrid_0.1

Model ID: `cf09aecb-c743-45...`

Software specification: hybrid_0.1

Hybrid pipeline software specifications: autoai-kb_rt24.1-py3.11

Tags

Add tags to make assets easier to find.

Source asset details

Deployments | Model details

Search | New deployment

Name	Type	Status	Tags	Last modified

This asset doesn't have any deployments yet

Use the New Deployment button to create a deployment for this asset.

Items per page: 20 | 0–0 of 0 items | 1 of 1 pages

About this asset

Name

P8 - XGB Classifier: ML model

Description

No description provided.

Asset Details

Type: wml-hybrid_0.1

Model ID: `cf09aecb-c743-45...`

Software specification: hybrid_0.1

Hybrid pipeline software specifications: autoai-kb_rt24.1-py3.11

Tags

Add tags to make assets easier to find.

Source asset details

Create a deployment

P8 - XGB Classifier: ML model

Deployment type

Online

Run the model on data in real-time, as data is received by a web service.

Batch

Run the model against data as a batch process.

Name

ML model Deployment

Cancel

Create

ML model Deployment

Deployed Online

API reference | Test

Endpoints for scoring

Private endpoint

```
https://private.eu-gb.ml.cloud.ibm.com/ml/v4/deployments/fb849233-f590-4b84
```

Bearer <token>

```
IAM
```

Public endpoint

```
https://eu-gb.ml.cloud.ibm.com/ml/v4/deployments/fb849233-f590-4b84-aa24-a6
```

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

Code snippets

About this deployment

Name

ML model Deployment

Description

No description provided.

Deployment Details

Deployment ID: `fb849233-f590-4b...`

Serving name:
No serving name.

Software specification:
hybrid_0.1

Hybrid pipeline software specifications:
autoai-kb_rt24.1-py3.11

Copies:
1

Tags

Add tags to make assets easier to find.

ML model Deployment

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 | Clear all

	STATE_NAME (other)	DISTRICT_NAME (other)	NO_OF_ROAD_WORK_SANCTIONED (double)	LENGTH_OF_ROAD_WORK_SANCTIONED (double)	NO_OF_BRIDGE
1	Andhra Pradesh	Chitoor	18	126.045	0
2	Arunachal Pradesh	Lohit	14	48.9	0
3					
4					
5					
6					

2 rows, 14 columns

Predict

About this deployment

Name
ML model Deployment

Description
No description provided.

Deployment Details
Deployment ID: `fb849233-f590-4b...`
Serving name:
No serving name.
Software specification:
hybrid_0.1
Hybrid pipeline software specifications:
autoai-kb_rt24.1-py3.11
Copies:
1

Tags
Add tags to make assets easier to find.

Associated asset
P8 - XGB Classifier: ML model
`cf09aecb-c743-4591-a4e4-69e3e7b8fe8a`

Last modified
12 minutes ago

Created on

Prediction results

Close

Display format for prediction results

Table view JSON view

Show input data

	prediction	probability
1	PMGSY-II	[0.00008600384899182245,0.0019606410060077906,0.9842352867126465,0.0136468531563...
2	PMGSY-I	[0.0000823180744191631 7,0.8545379638671875,0.13830377161502838,0.007011157460510...
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Download JSON file