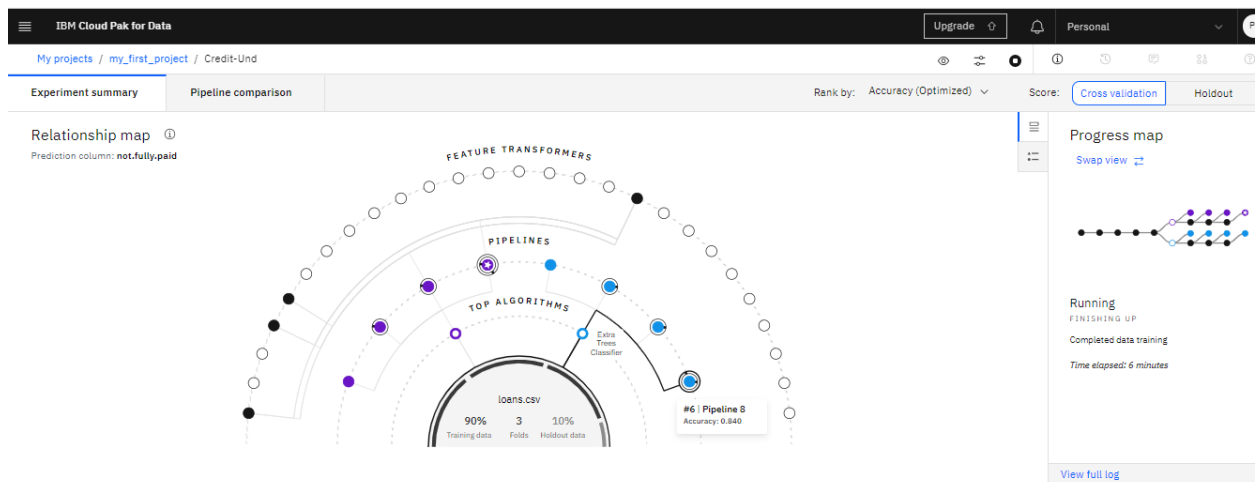


# Deploying a model from Auto AI

1. Go to the Auto AI Experiment which has finished training. The page will look similar to one in the picture.



2. Scroll down and you will be able to see the pipelines created while training. Choose the best one (it will be already sorted on the performance and given a rank). On the right side you will see option to **"Save as Model"** . Click on it to proceed

VIEW FULL LOG

Pipeline leaderboard

Rank	↑	Name	Algorithm	Accuracy (Optimized)	Enhancements	Build time
>	★ 1	Pipeline 4	Gradient Boosting Classifier	0.841	HPO-1 FE HPO-2	00:00:35
>	2	Pipeline 2	Gradient Boosting Classifier	0.841	HPO-1	00:00:14
>	3	Pipeline 3	Gradient Boosting Classifier	0.841	HPO-1 FE	00:01:19
>	4	Pipeline 6	Extra Trees Classifier	0.840	HPO-1	00:00:08
>	5	Pipeline 7	Extra Trees Classifier	0.840	HPO-1 FE	00:00:38
>	6	Pipeline 8	Extra Trees Classifier	0.840	HPO-1 FE HPO-2	00:00:18
>	7	Pipeline 1	Gradient Boosting Classifier	0.836	None	00:00:06
>	8	Pipeline 5	Extra Trees Classifier	0.834	None	00:00:01

• • •

Save as  
Model  
Notebook  
Mod

3. A pop up will come to set the name for the saved model. Change it if needed and proceed by clicking **"Save"**

IBM Cloud Pak for Data

Upgrade

Personal

My projects / my\_first\_project / Credit-Und

Experiment summary

Pipeline comparison

Rank by: Accuracy (Optimized)

Pipeline leaderboard

Rank	↑	Name	Algorithm	Score	Build time
>	★ 1	Pipeline 4	Gradient Boosting Classifier	0.836	00:00:35
>	2	Pipeline 2	Gradient Boosting Classifier	0.834	00:00:14
>	3	Pipeline 3	Gradient Boosting Classifier	0.834	00:01:19
>	4	Pipeline 6	Extra Trees Classifier	0.834	00:00:08
>	5	Pipeline 7	Extra Trees Classifier	0.834	00:00:38
>	6	Pipeline 8	Extra Trees Classifier	0.834	00:00:18
>	7	Pipeline 1	Gradient Boosting Classifier	0.836	00:00:06
>	8	Pipeline 5	Extra Trees Classifier	0.834	00:00:01

Save as model

Save this model as a project asset so you can deploy, train, and test it.

Model name

Credit-Und - P4 GradientBoostingClassifierEstimator

Description (optional)

Description of model

Associated project

my\_first\_project

Cancel

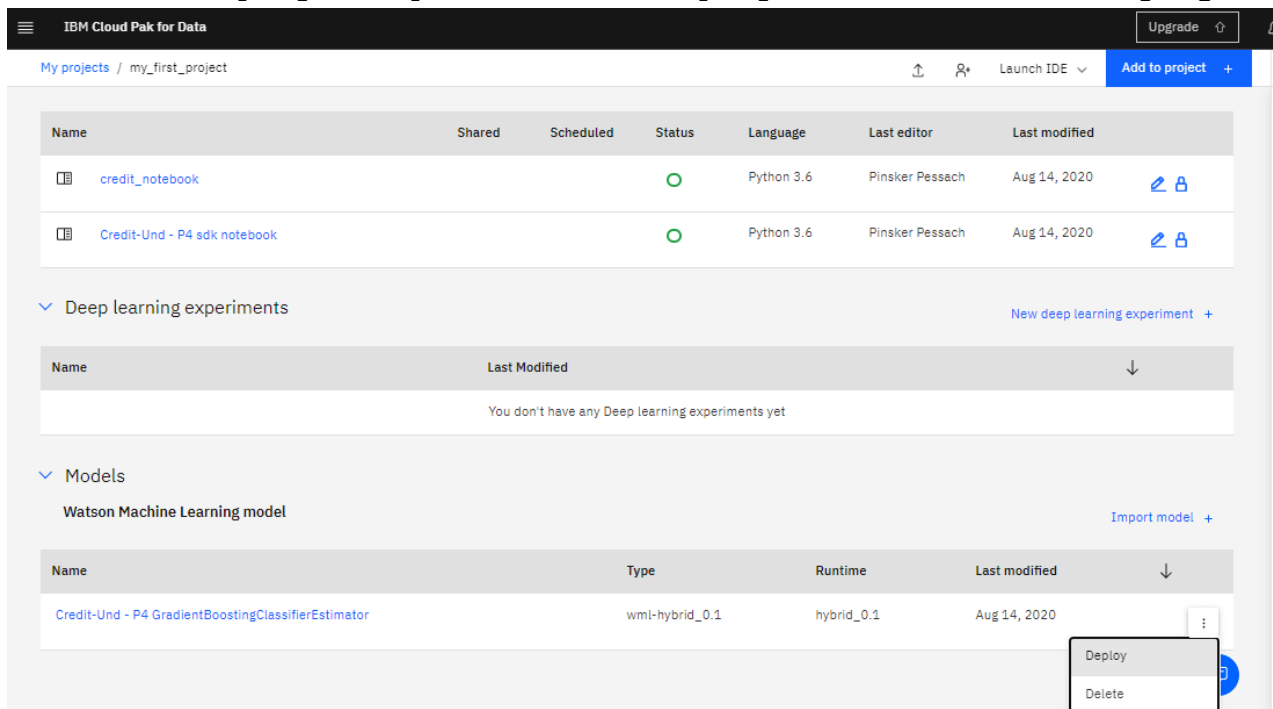
Save

Saved model successfully.

Credit-Und - P4 GradientBoostingClassifierEstimator was successfully saved to my\_first\_project.

View in project

4. Go back to asset page of project page. Under Models, you will be able to see the saved model. Click on the options to see button to Deploy. To proceed with deployment , click on “Deploy”



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 an 'Upgrade' button. Below it, the breadcrumb 'My projects / my\_first\_project' is visible. The main content area has a table of assets with columns: Name, Shared, Scheduled, Status, Language, Last editor, and Last modified. Two assets are listed: 'credit\_notebook' and 'Credit-Und - P4 sdk notebook', both with a status of 'O' and language of 'Python 3.6'. Below this table is a section for 'Deep learning experiments' with a 'New deep learning experiment +' link. Underneath is a table for 'Models' with columns: Name, Type, Runtime, and Last modified. One model is listed: 'Credit-Und - P4 GradientBoostingClassifierEstimator' with type 'wml-hybrid\_0.1' and runtime 'hybrid\_0.1'. A dropdown menu is open for this model, showing 'Deploy' and 'Delete' options.

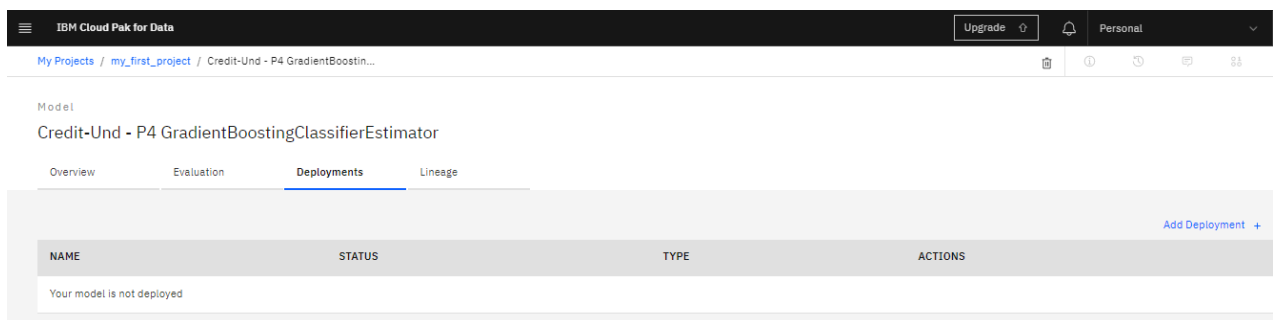
Name	Shared	Scheduled	Status	Language	Last editor	Last modified
<a href="#">credit_notebook</a>			O	Python 3.6	Pinsker Pessach	Aug 14, 2020
<a href="#">Credit-Und - P4 sdk notebook</a>			O	Python 3.6	Pinsker Pessach	Aug 14, 2020

Deep learning experiments [New deep learning experiment +](#)

Name	Type	Runtime	Last modified
<a href="#">Credit-Und - P4 GradientBoostingClassifierEstimator</a>	wml-hybrid_0.1	hybrid_0.1	Aug 14, 2020

Deploy  
Delete

5. You will be taken to a page similar to the one below. Click on **Add deployment** to initiate the deployment process.



The screenshot shows the IBM Cloud Pak for Data interface for a specific model. The breadcrumb is 'My Projects / my\_first\_project / Credit-Und - P4 GradientBoostin...'. The model name is 'Credit-Und - P4 GradientBoostingClassifierEstimator'. Below the model name are tabs for 'Overview', 'Evaluation', 'Deployments', and 'Lineage'. The 'Deployments' tab is selected. Below the tabs is a table with columns: NAME, STATUS, TYPE, and ACTIONS. The table is empty, and a message 'Your model is not deployed' is displayed. An 'Add Deployment +' link is in the top right corner.

Model  
Credit-Und - P4 GradientBoostingClassifierEstimator

Overview Evaluation **Deployments** Lineage

NAME	STATUS	TYPE	ACTIONS
Your model is not deployed			

Add Deployment +

6. Give a name to your deployment and click on **"Save"**

IBM Cloud Pak for Data

Create Deployment

Define deployment details

Name  
predictor\_credit-und

Description  
Deployment description

Deployment type  
☒ Web service

Cancel Save

7. It will take a while to get it deployed. Upon completion you will be able to see the overview, implementation and test options.

IBM Cloud Pak for Data

My projects / my\_first\_project / Credit-Und - P4 GradientBoostin... / predictor\_credit-und

predictor\_credit-und

Overview Implementation Test

Deployment	
Name	predictor_credit-und
Type	Web Service
Deployment ID	eb8ac5fd-69d7-4054-b252-89cd396ff6b3
Status	Ready
Asset type	Model
Asset name	Credit-Und - P4 GradientBoostingClassifierEstimator
Machine learning service	WatsonMachineLearning
Created	Aug 14, 2020 3:41 PM
Last modified	Aug 14, 2020 3:41 PM

Model

On implementation you can see the endpoint of the web service and code snippets in various languages to use it in the client system.

IBM Cloud Pak for Data

[My projects](#) / [my\\_first\\_project](#) / [Credit-Und - P4 GradientBoostin...](#) / [predictor\\_credit-und](#)

## predictor\_credit-und

Overview

Implementation

Test

Enter input data

credit.policy

Integer

purpose

String

int.rate

Float

installment

Float

Predict

IBM Cloud Pak for Data

Upgrade

Personal

[My projects](#) / [my\\_first\\_project](#) / [Credit-Und - P4 GradientBoostin...](#) / [predictor\\_credit-und](#)

Overview

Implementation

Test

Implementation

[View API Specification](#)

Code Snippets

cURL

Java

JavaScript

Python

Scala

```
import urllib3, requests, json

# NOTE: generate iam_token and retrieve ml_instance_id based on provided documentation
header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + iam_token, 'ML-Instance-ID': ml_instance_id}

# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {'input_data': [{"fields": [{"credit.policy", "purpose", "int.rate", "installment", "log.annual.inc", "dti", "fico", "days.with.cr.line", "revol.bal", "revol.util", "inq.last.6mths", "del"}]}]}

response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/v4/deployments/eb8ac5fd-69d7-4054-b252-89cd396ff6b3/predictions', json=payload_scoring, headers=header)
print(response_scoring)
```