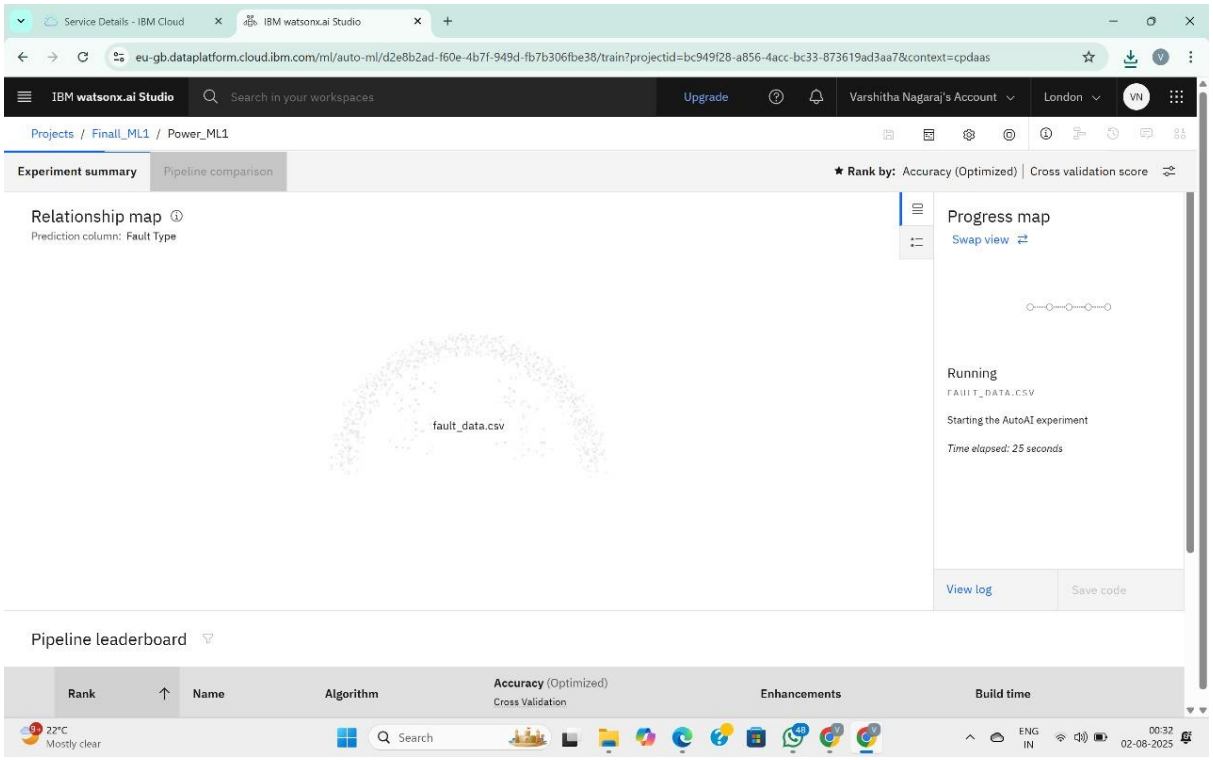
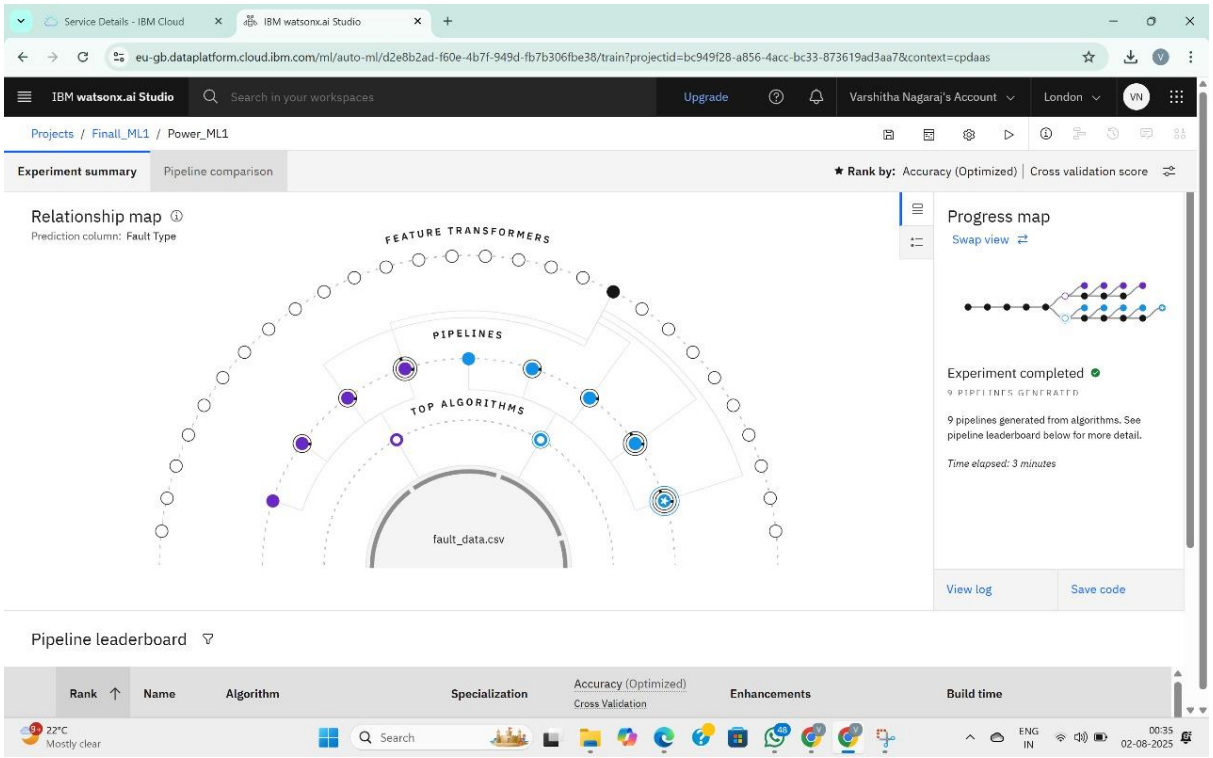
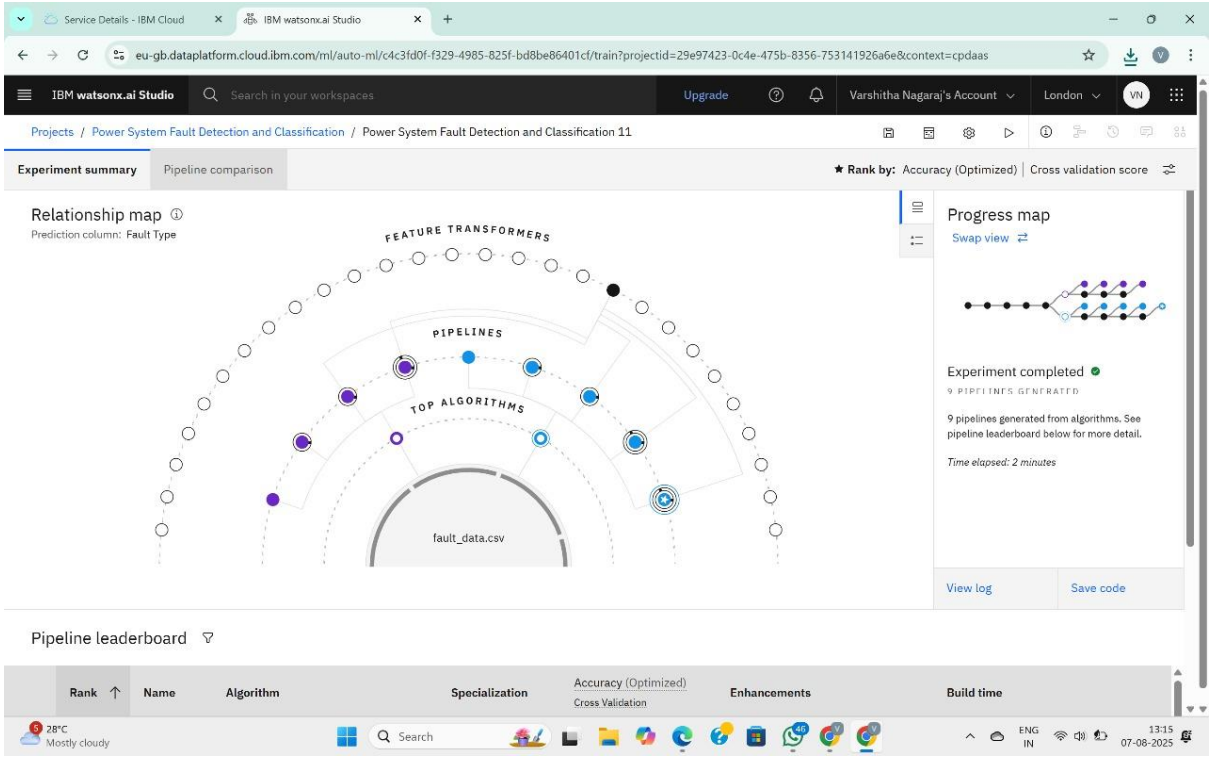
STEPS OF THE PROJECT






Service Details - IBM Cloud
IBM watsonx.ai Studio
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Search in your workspaces
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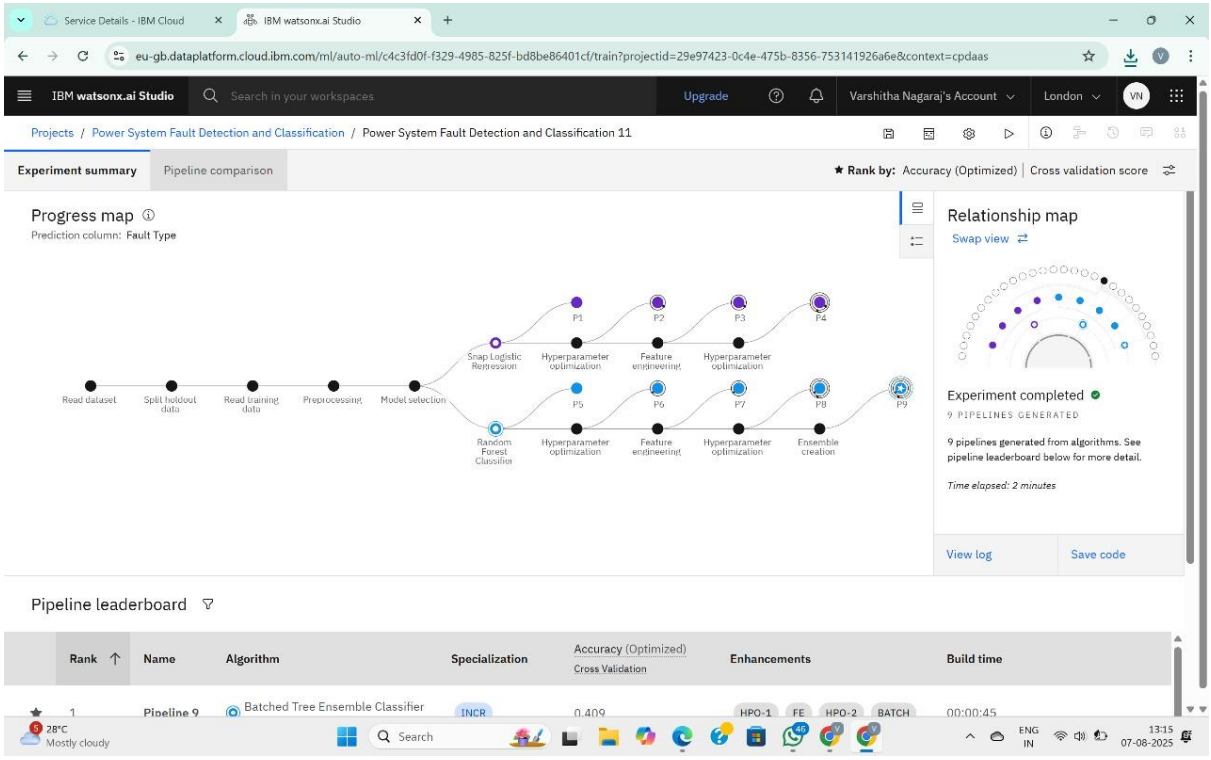
Projects / Power System Fault Detection and Classification / Power System Fault Detection and Classification 11
Experiment summary
Pipeline comparison
Rank by: Accuracy (Optimized) | Cross validation score
Relationship map
Prediction column: Fault Type
FEATURE TRANSFORMERS
PIPELINES
TOP ALGORITHMS
fault_data.csv
Progress map
Swap view
Experiment completed
9 PIPELINES GENERATED
9 pipelines generated from algorithms. See pipeline leaderboard below for more detail.
Time elapsed: 2 minutes
View log
Save code
Pipeline leaderboard
Rank
Name
Algorithm
Specialization
Accuracy (Optimized)
Cross Validation
Enhancements
Build time
28°C
Mostly cloudy
Search
ENG
IN
13:15
07-08-2025


Service Details - IBM Cloud
IBM watsonx.ai Studio
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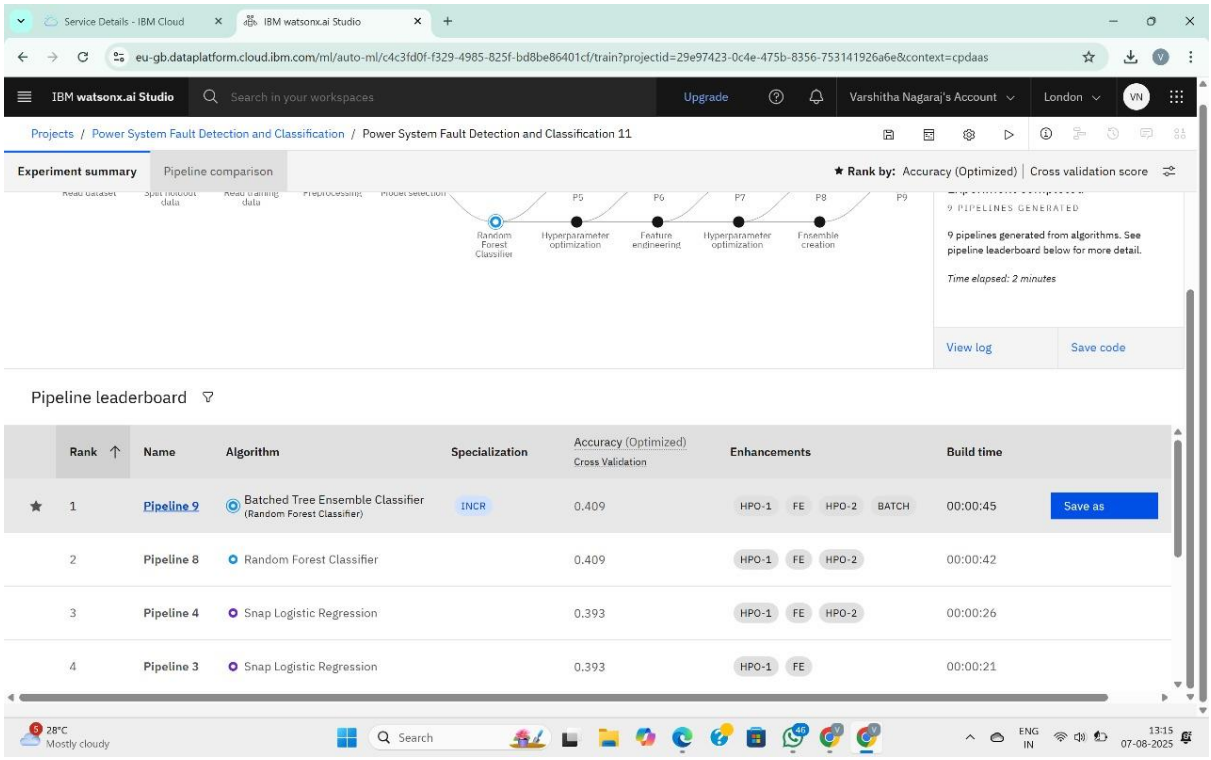
Projects / Power System Fault Detection and Classification / Power System Fault Detection and Classification 11
Experiment summary
Pipeline comparison
Rank by: Accuracy (Optimized) | Cross validation score
Progress map
Prediction column: Fault Type
Read dataset
Split holdout data
Read training data
Preprocessing
Model selection
Snap Logistic Regression
Random Forest Classifier
Hyperparameter optimization
Feature engineering
Ensemble creation
P1
P2
P3
P4
P5
P6
P7
P8
P9
Relationship map
Swap view
Experiment completed
9 PIPELINES GENERATED
9 pipelines generated from algorithms. See pipeline leaderboard below for more detail.
Time elapsed: 2 minutes
View log
Save code
Pipeline leaderboard
Rank
Name
Algorithm
Specialization
Accuracy (Optimized)
Cross Validation
Enhancements
Build time
1
Pipeline 9
Batched Tree Ensemble Classifier
INCR
0.409
HPO-1
FE
HPO-2
BATCH
00:00:45
28°C
Mostly cloudy
Search
ENG
IN
13:15
07-08-2025


Service Details - IBM Cloud
IBM watsonx.ai Studio
eu-gb.dataplatform.cloud.ibm.com/ml/auto-ml/c4c3fd0f-f329-4985-825f-bd8be86401cf/train?projectid=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
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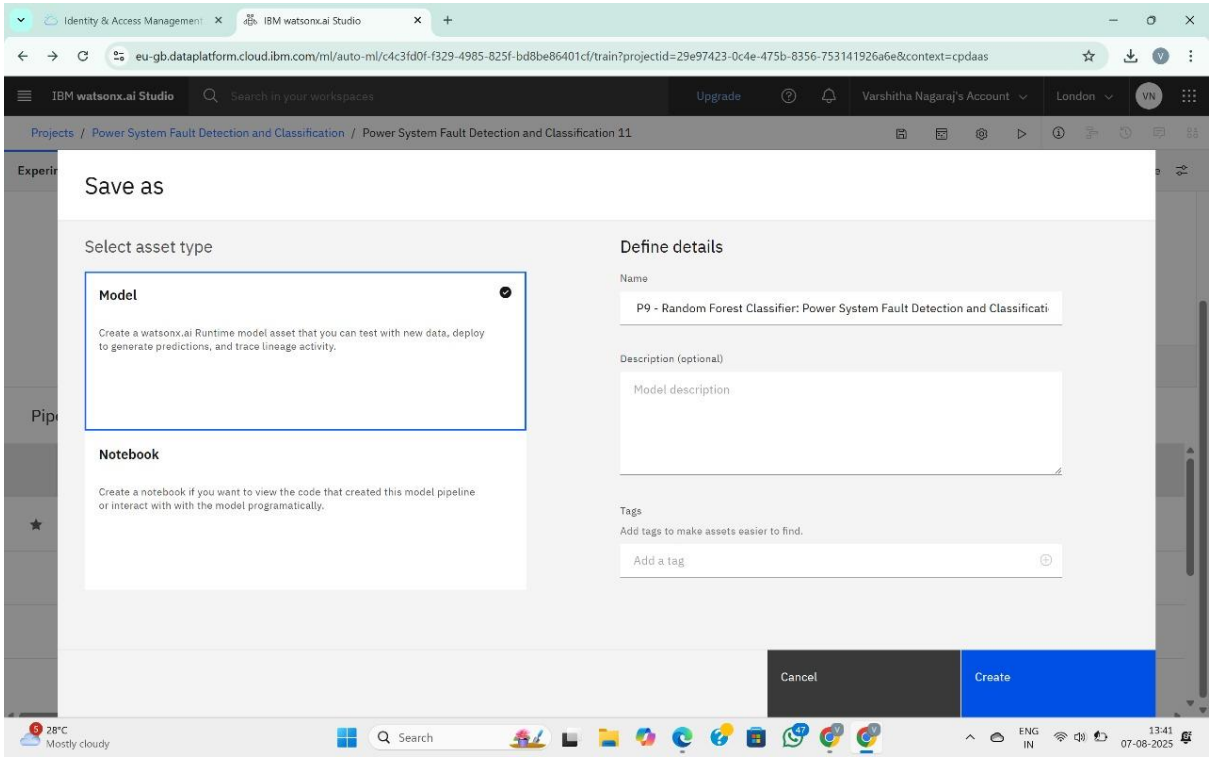
Projects / Power System Fault Detection and Classification / Power System Fault Detection and Classification 11
Experiment summary
Pipeline comparison
Rank by: Accuracy (Optimized) | Cross validation score
Random Forest Classifier
Hyperparameter optimization
Feature engineering
Hyperparameter optimization
Ensemble creation
9 PIPELINES GENERATED
9 pipelines generated from algorithms. See pipeline leaderboard below for more detail.
Time elapsed: 2 minutes
View log
Save code
Pipeline leaderboard
Rank
Name
Algorithm
Specialization
Accuracy (Optimized)
Cross Validation
Enhancements
Build time
1
Pipeline 9
Batched Tree Ensemble Classifier
(Random Forest Classifier)
INCR
0.409
HPO-1 FE HPO-2 BATCH
00:00:45
Save as
2
Pipeline 8
Random Forest Classifier
0.409
HPO-1 FE HPO-2
00:00:42
3
Pipeline 4
Snap Logistic Regression
0.393
HPO-1 FE HPO-2
00:00:26
4
Pipeline 3
Snap Logistic Regression
0.393
HPO-1 FE
00:00:21
28°C
Mostly cloudy
Search
ENG
IN
13:15
07-08-2025


Identity & Access Management
IBM watsonx.ai Studio
eu-gb.dataplatform.cloud.ibm.com/ml/auto-ml/c4c3fd0f-f329-4985-825f-bd8be86401cf/train?projectid=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
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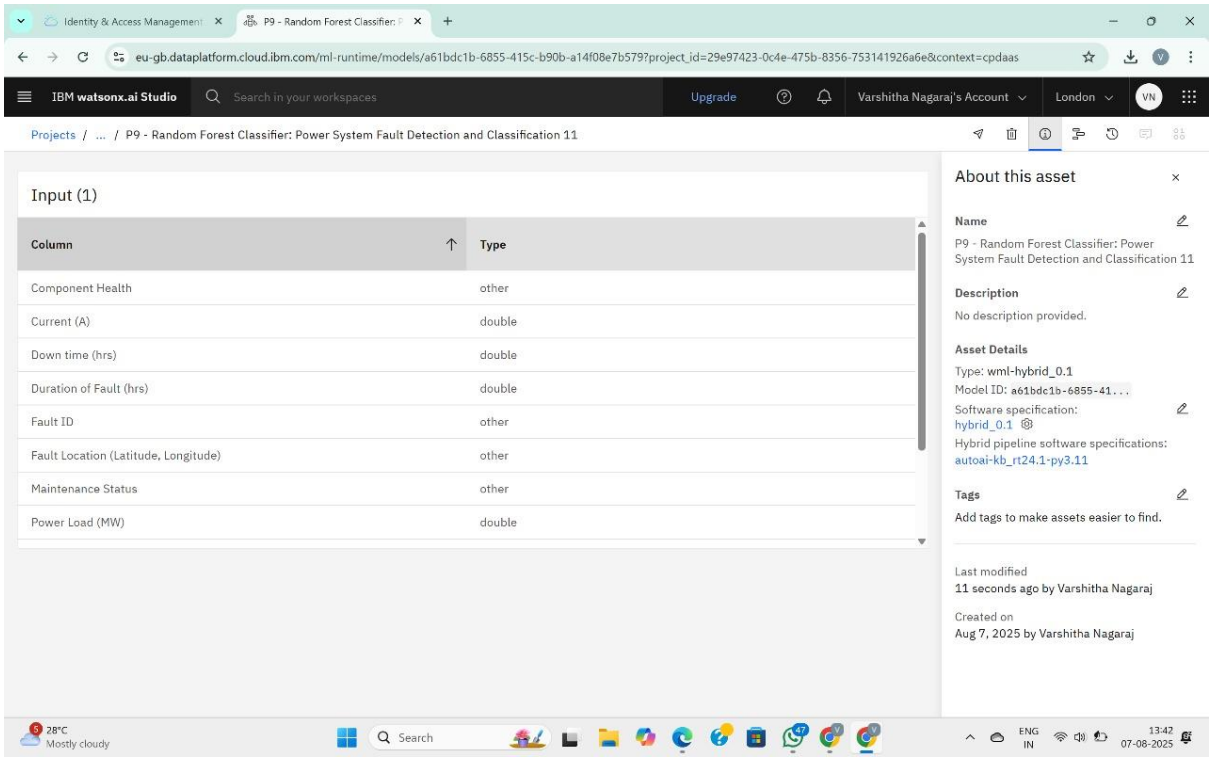
Projects / Power System Fault Detection and Classification / Power System Fault Detection and Classification 11
Save as
Select asset type
Model
Create a watsonx.ai Runtime model asset that you can test with new data, deploy to generate predictions, and trace lineage activity.
Notebook
Create a notebook if you want to view the code that created this model pipeline or interact with with the model programatically.
Define details
Name
P9 - Random Forest Classifier: Power System Fault Detection and Classificati
Description (optional)
Model description
Tags
Add tags to make assets easier to find.
Add a tag
Cancel
Create
28°C
Mostly cloudy
Search
ENG
IN
13:41
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/a61bdc1b-6855-415c-b90b-a14f08e7b579?project_id=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
IBM watsonx.ai Studio
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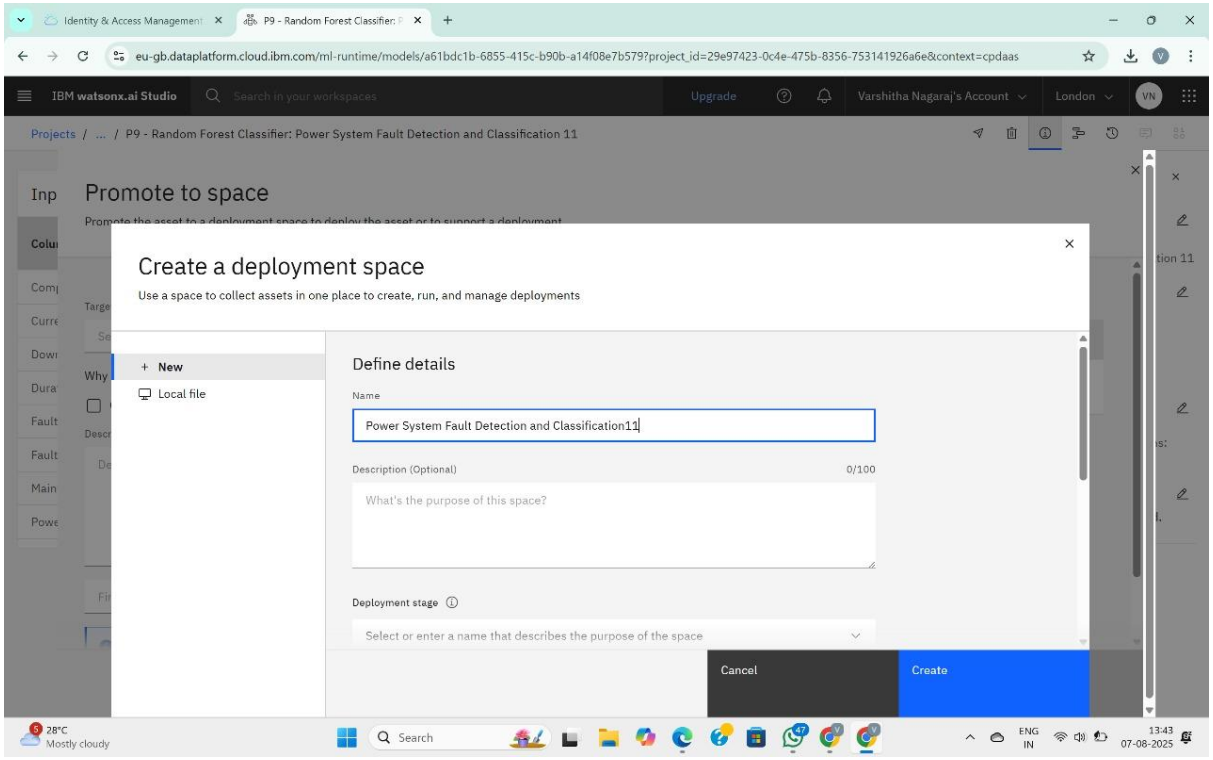
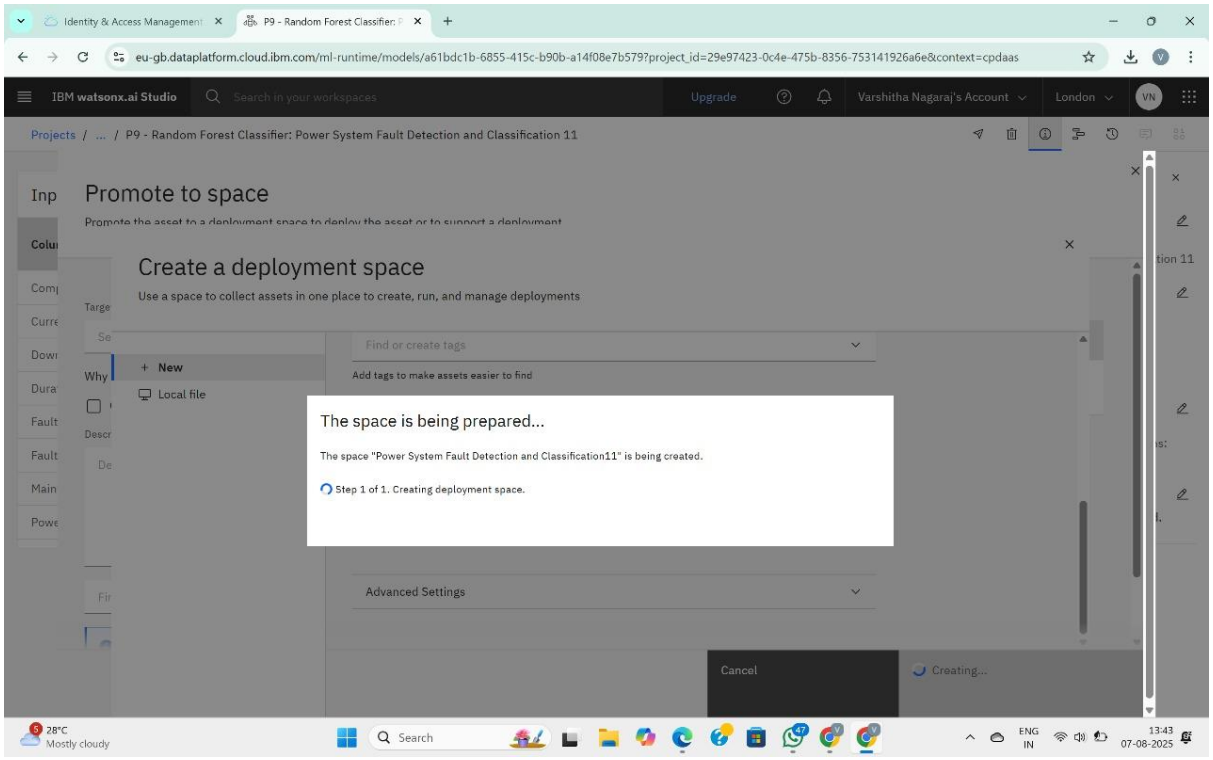
London
Projects / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Input (1)
Column
Type
Component Health
other
Current (A)
double
Down time (hrs)
double
Duration of Fault (hrs)
double
Fault ID
other
Fault Location (Latitude, Longitude)
other
Maintenance Status
other
Power Load (MW)
double
About this asset
Name
P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Description
No description provided.
Asset Details
Type: wml-hybrid_0.1
Model ID: a61bdc1b-6855-41...
Software specification:
hybrid_0.1
Hybrid pipeline software specifications:
autoai-kb_rt24.1-py3.11
Tags
Add tags to make assets easier to find.
Last modified
11 seconds ago by Varshitha Nagaraj
Created on
Aug 7, 2025 by Varshitha Nagaraj
28°C
Mostly cloudy
Search
ENG
IN
13:42
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/a61bdc1b-6855-415c-b90b-a14f08e7b579?project_id=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
IBM watsonx.ai Studio
Search in your workspaces
Upgrade
Varshitha Nagaraj's Account
London
Projects / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Promote to space
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
Power System Fault Detection and Classification11
Description (Optional)
0/100
What's the purpose of this space?
Deployment stage
Select or enter a name that describes the purpose of the space
Cancel
Create
28°C
Mostly cloudy
Search
ENG
IN
13:43
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/a61bdc1b-6855-415c-b90b-a14f08e7b579?project_id=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
IBM watsonx.ai Studio
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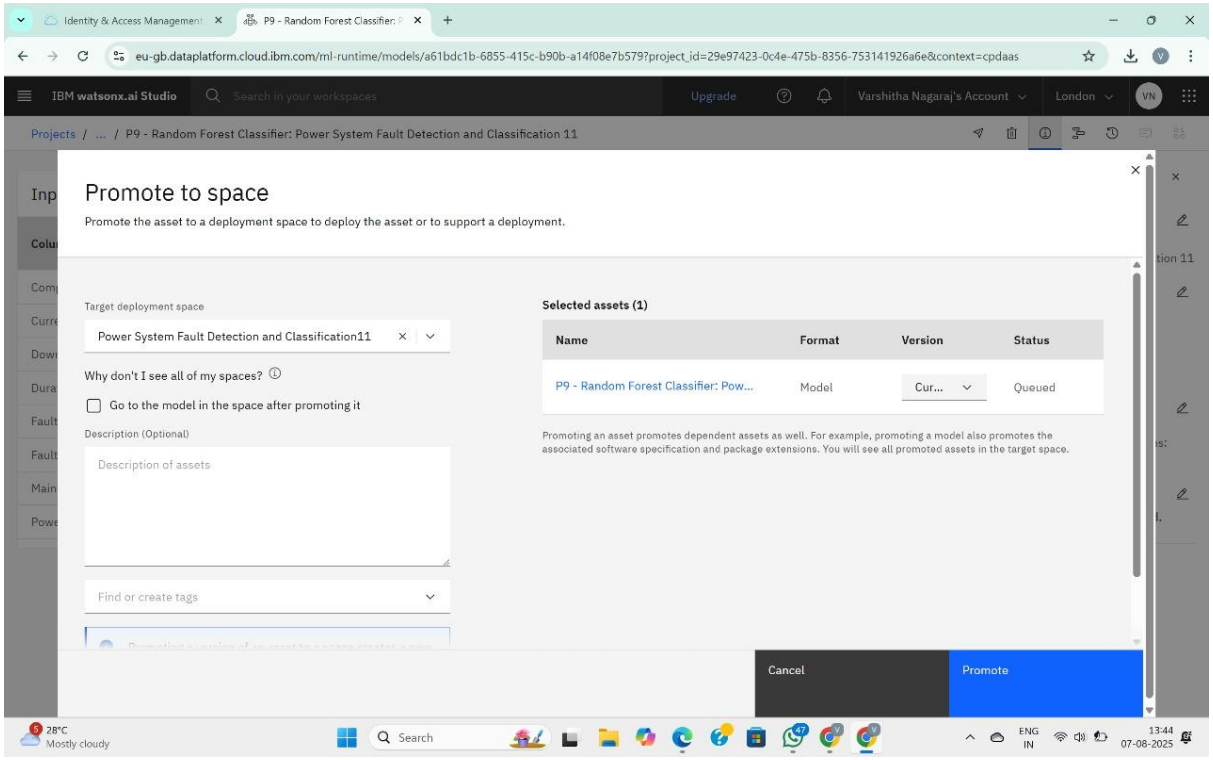
Projects / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Promote to space
Create a deployment space
Use a space to collect assets in one place to create, run, and manage deployments
+ New
Local file
Find or create tags
Add tags to make assets easier to find
The space is being prepared...
The space "Power System Fault Detection and Classification11" is being created.
Step 1 of 1. Creating deployment space.
Advanced Settings
Cancel
Creating...
28°C
Mostly cloudy
Search
ENG
IN
13:43
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/a61bdc1b-6855-415c-b90b-a14f08e7b579?project_id=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
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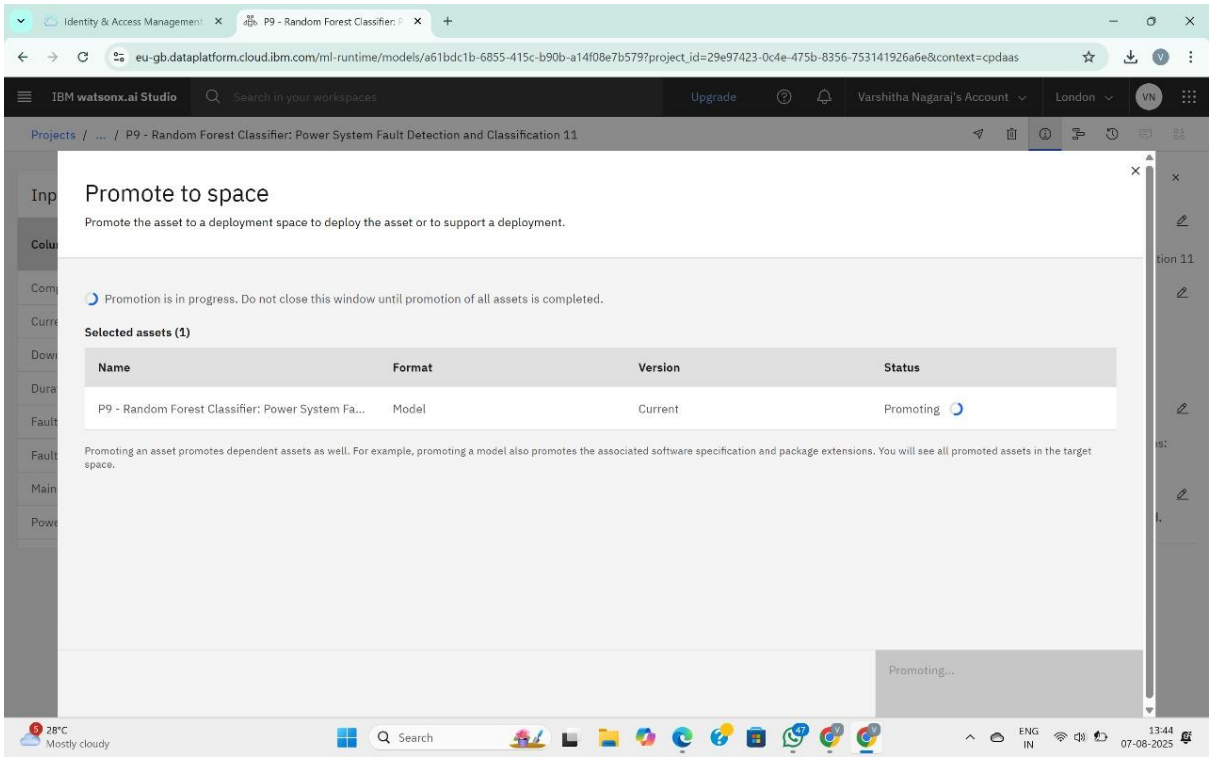
Projects / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Promote to space
Promote the asset to a deployment space to deploy the asset or to support a deployment.
Target deployment space
Power System Fault Detection and Classification11
Why don't I see all of my spaces?
Go to the model in the space after promoting it
Description (Optional)
Description of assets
Find or create tags
Selected assets (1)
Name
Format
Version
Status
P9 - Random Forest Classifier: Pow...
Model
Cur...
Queued
Promoting an asset promotes dependent assets as well. For example, promoting a model also promotes the associated software specification and package extensions. You will see all promoted assets in the target space.
Cancel
Promote
28°C
Mostly cloudy
Search
ENG
IN
13:44
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/a61bdc1b-6855-415c-b90b-a14f08e7b579?project_id=29e97423-0c4e-475b-8356-753141926a6e&context=cpdaas
IBM watsonx.ai Studio
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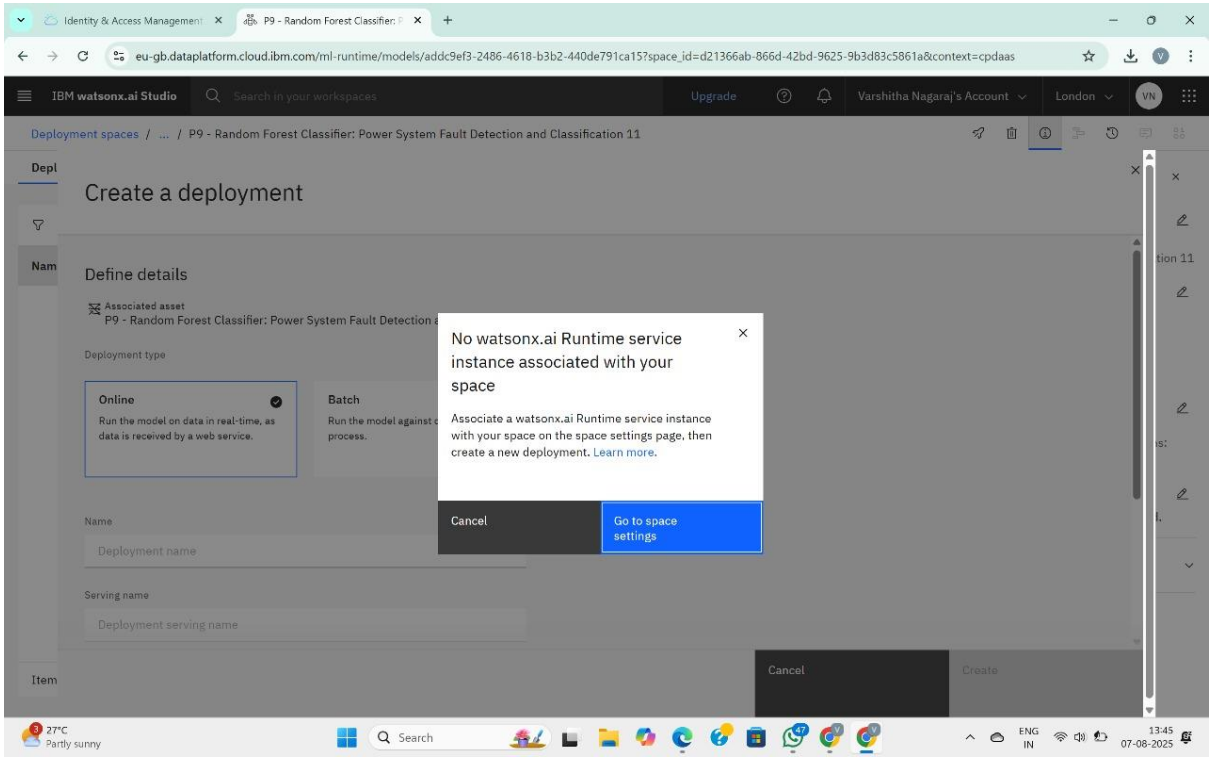
Projects / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Promote to space
Promote the asset to a deployment space to deploy the asset or to support a deployment.
Promotion is in progress. Do not close this window until promotion of all assets is completed.
Selected assets (1)
Name
Format
Version
Status
P9 - Random Forest Classifier: Power System Fa...
Model
Current
Promoting
Promoting an asset promotes dependent assets as well. For example, promoting a model also promotes the associated software specification and package extensions. You will see all promoted assets in the target space.
Promoting...
28°C
Mostly cloudy
Search
ENG
IN
13:44
07-08-2025


Identity & Access Management
P9 - Random Forest Classifier:
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/models/addc9ef3-2486-4618-b3b2-440de791ca15?space_id=d21366ab-866d-42bd-9625-9b3d83c5861a&context=cpdaas
IBM watsonx.ai Studio
Search in your workspaces
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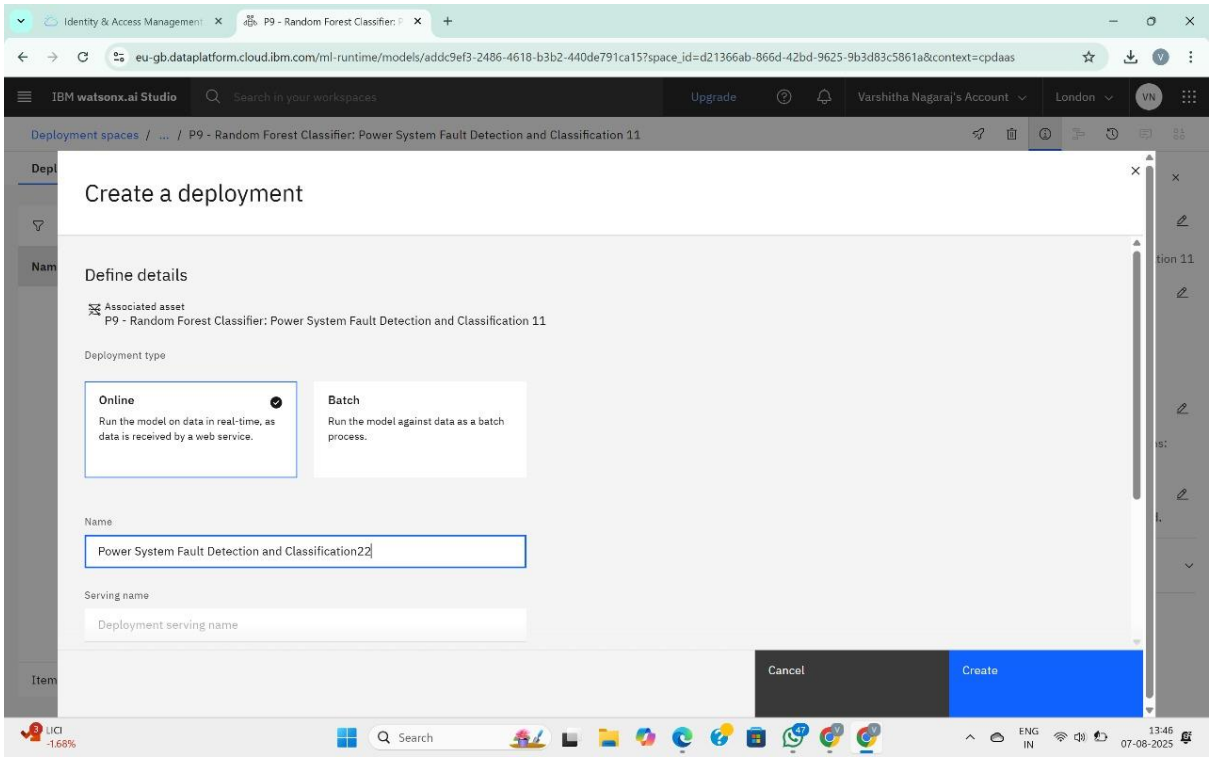
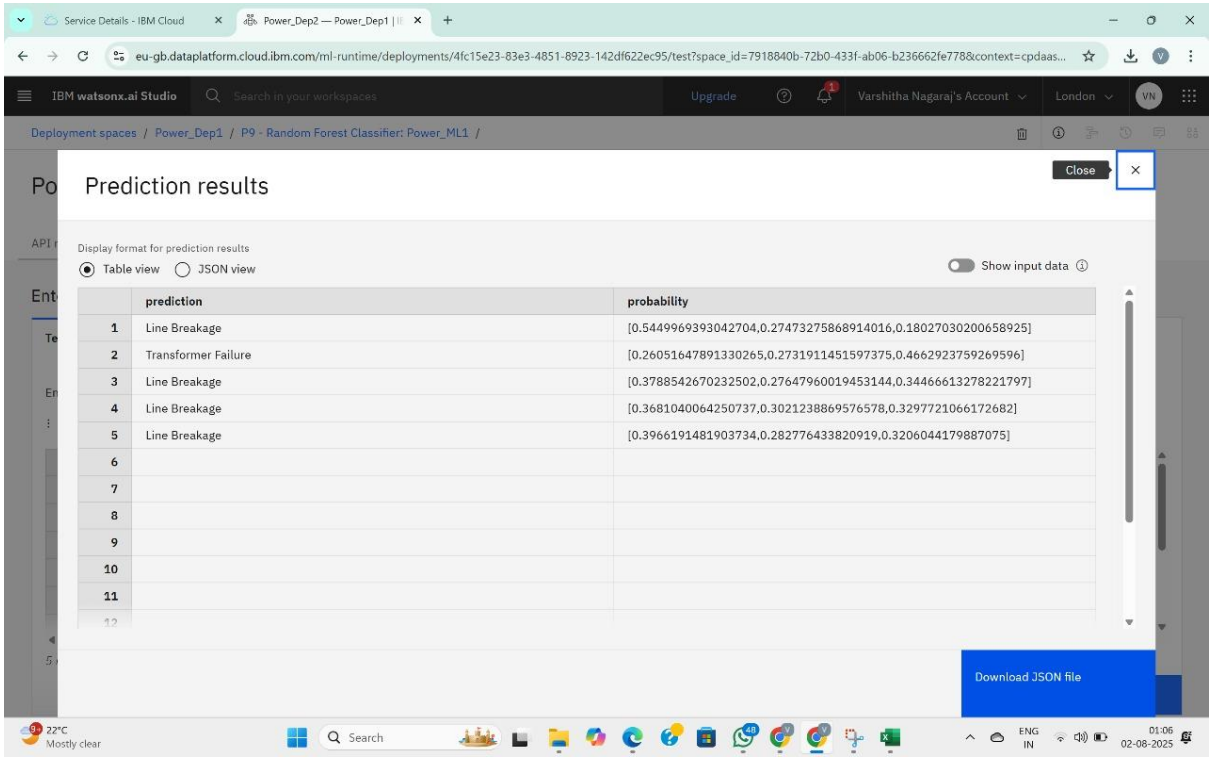
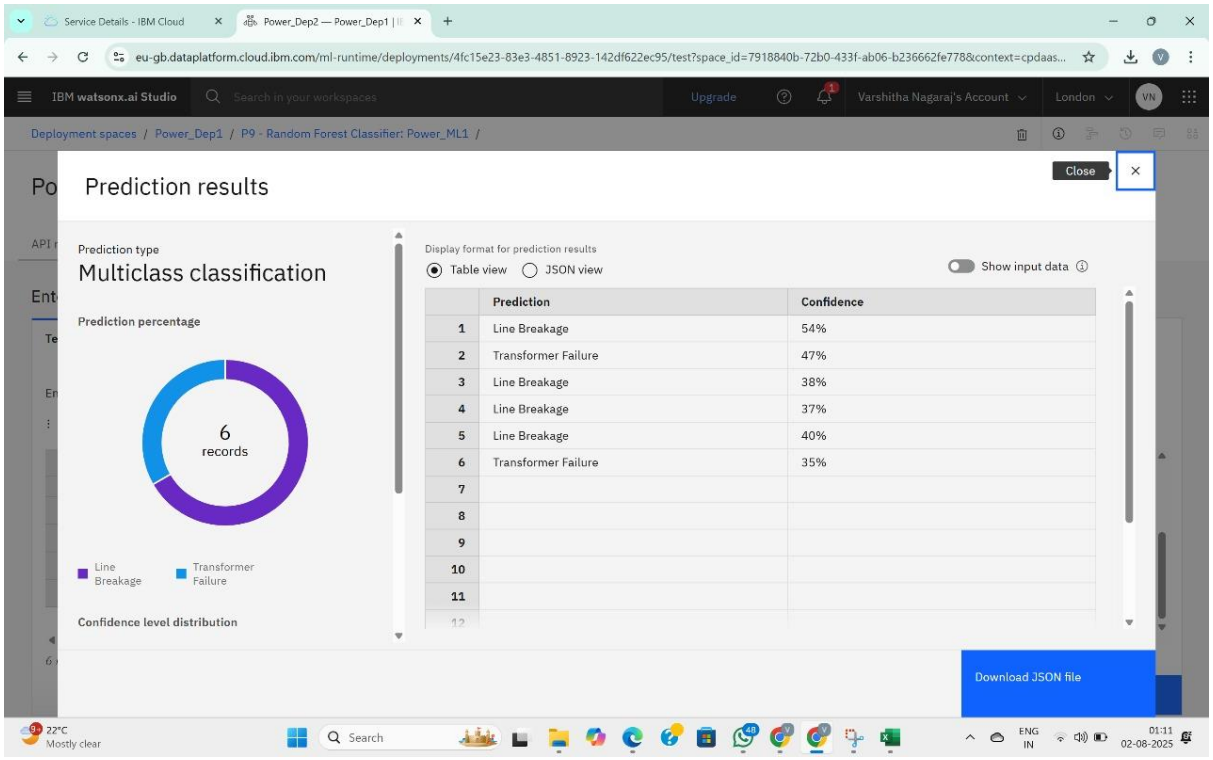
London
Deployment spaces / ... / P9 - Random Forest Classifier: Power System Fault Detection and Classification 11
Create a deployment
Define details
Associated asset
P9 - Random Forest Classifier: Power System Fault Detection
Deployment type
Online
Run the model on data in real-time, as data is received by a web service.
Batch
Run the model against
process.
Name
Deployment name
Serving name
Deployment serving name
Cancel
Create
No watsonx.ai Runtime service instance associated with your space
Associate a watsonx.ai Runtime service instance with your space on the space settings page, then create a new deployment. Learn more.
Cancel
Go to space settings
27°C
Partly sunny
Search
ENG
IN
13:45
07-08-2025





	prediction	probability
1	Line Breakage	[0.5449969393042704,0.27473275868914016,0.18027030200658925]
2	Transformer Failure	[0.26051647891330265,0.2731911451597375,0.4662923759269596]
3	Line Breakage	[0.3788542670232502,0.2764796001945314,0.34466613278221797]
4	Line Breakage	[0.3681040064250737,0.3021238869576578,0.3297721066172682]
5	Line Breakage	[0.3966191481903734,0.282776433820919,0.3206044179887075]
6		
7		
8		
9		
10		
11		


Service Details - IBM Cloud
Power_Dep2 — Power_Dep1
eu-gb.dataplatform.cloud.ibm.com/ml-runtime/deployments/4fc15e23-83e3-4851-8923-142df622ec95/test?space_id=7918840b-72b0-433f-ab06-b23662fe7788&context=cpdaas...
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Deployment spaces / Power_Dep1 / P9 - Random Forest Classifier: Power_ML1 /
Prediction results
Close
Prediction type
Multiclass classification
Prediction percentage
6
records
Line Breakage
Transformer Failure
Confidence level distribution
Display format for prediction results
Table view
JSON view
Show input data
Prediction
Confidence
1 Line Breakage 54%
2 Transformer Failure 47%
3 Line Breakage 38%
4 Line Breakage 37%
5 Line Breakage 40%
6 Transformer Failure 35%
7
8
9
10
11
Download JSON file
22°C
Mostly clear
Search
ENG
IN
01:11
02-08-2025