# Predictive Maintenance of Industrial Machinery

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

| | Type (other) | Air temperature [K] (double) | Process temperature [K] (double) | Rotational speed [rpm] (double) | Torque [Nm] (double) | Tool wear [min] (double) | Target (double) |
|---|---|---|---|---|---|---|---|
| 1 | m | 298 | 308 | 1551 | 42 | 0 | |
| 2 | l | 298 | 309 | 2861 | 4.6 | 143 | 1 |
| 3 | | | | | | | |

*2 rows, 9 columns*

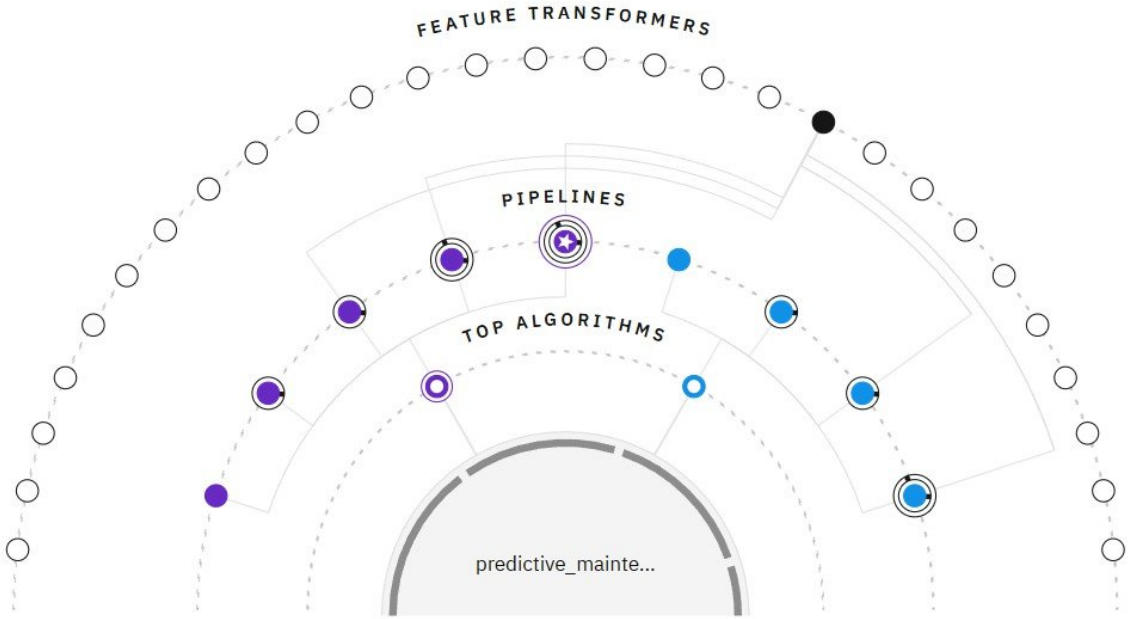
Predict

Experiment summary | Pipeline comparison

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

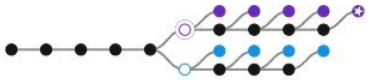
## Relationship map

Prediction column: Failure Type




## Progress map

Swap view



Experiment completed

9 PIPELINES GENERATED

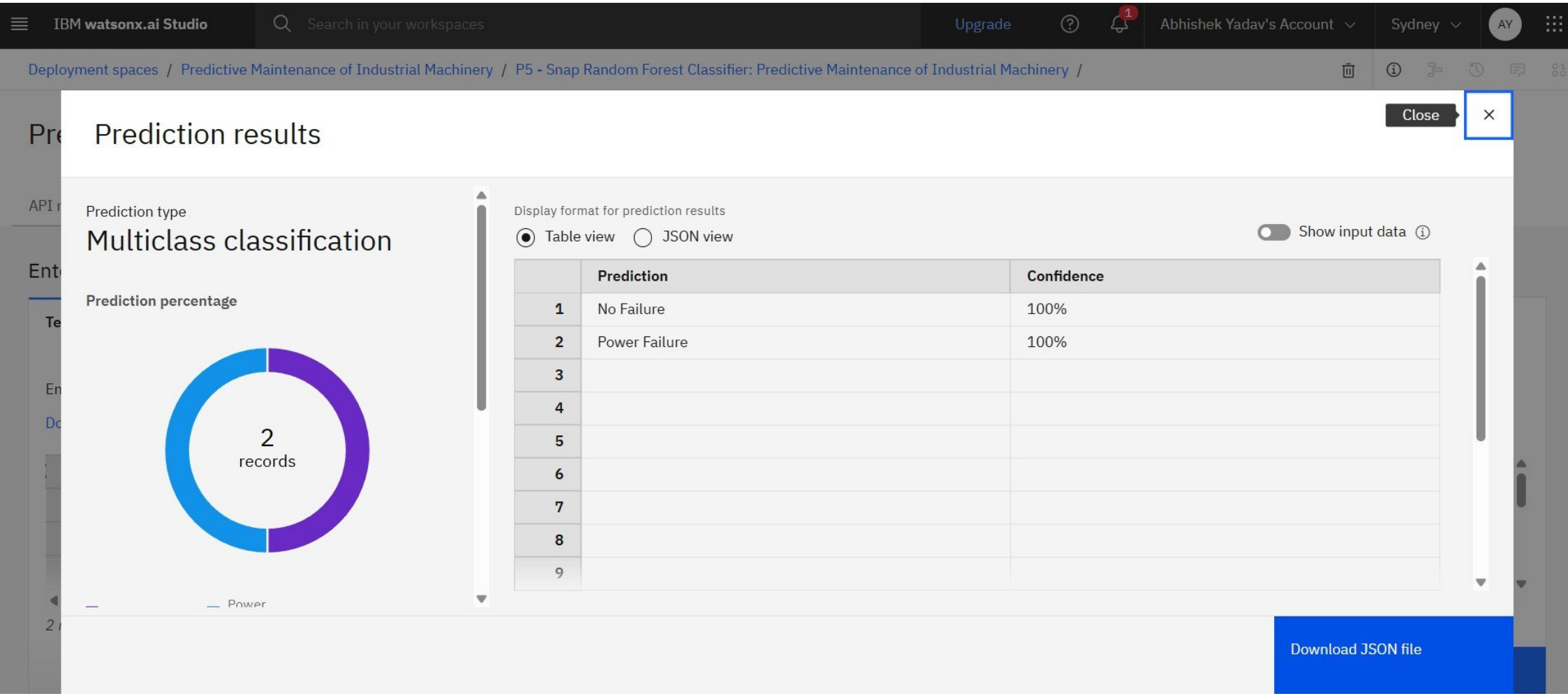
9 pipelines generated from algorithms. See pipeline leaderboard below for more detail.

*Time elapsed: 13 minutes*

View log | Save code

## Pipeline leaderboard

| | Rank | Name | Algorithm | Specialization | Accuracy (Optimized) Cross Validation | Enhancements | Build time |
|---|---|---|---|---|---|---|---|
| ★ | 1 | **Pipeline 5** | Batched Tree Ensemble Classifier (Snap Random Forest Classifier) | INCR | 0.995 | HPO-1 FE HPO-2 BATCH | 00:02:27 |
| | 2 | **Pipeline 4** | Snap Random Forest Classifier | | 0.995 | HPO-1 FE HPO-2 | 00:02:24 |
| | 3 | **Pipeline 3** | Snap Random Forest Classifier | | 0.995 | HPO-1 FE | 00:02:16 |
| | 4 | **Pipeline 9** | Snap Decision Tree Classifier | | 0.994 | HPO-1 FE HPO-2 | 00:00:05 |


IBM watsonx.ai Studio
Search in your workspaces
Upgrade
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Sydney
AY
Deployment spaces / Predictive Maintenance of Industrial Machinery / P5 - Snap Random Forest Classifier: Predictive Maintenance of Industrial Machinery /
Prediction results
Close
Prediction type
Multiclass classification
Prediction percentage
2
records
Power
Display format for prediction results
Table view
JSON view
Show input data
Prediction
Confidence
1 No Failure 100%
2 Power Failure 100%
3
4
5
6
7
8
9
Download JSON file