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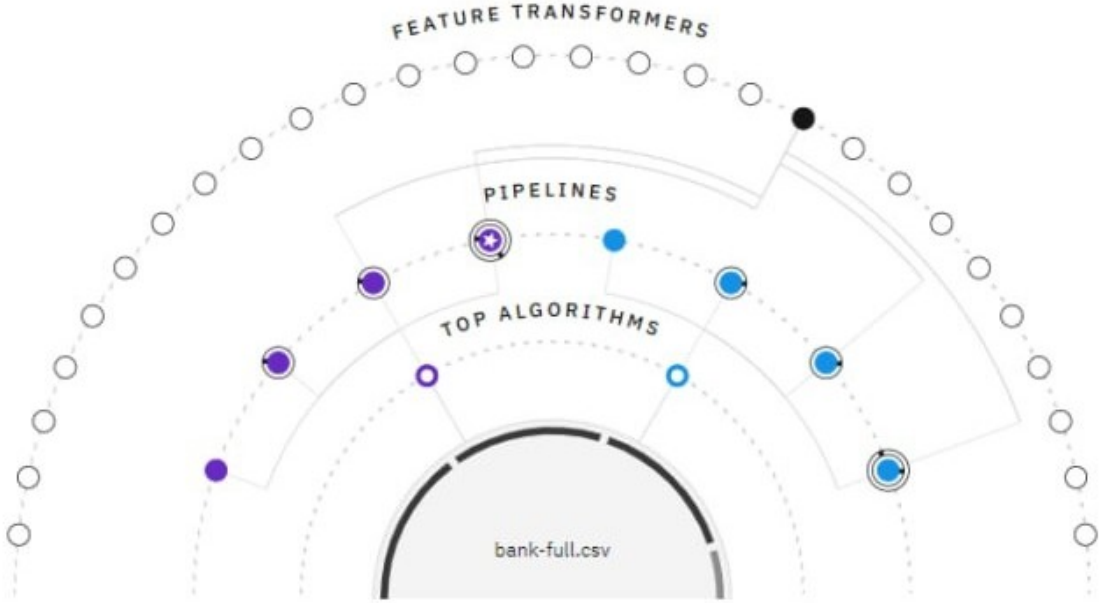
Projects / My First ML Model / My First Expriment

Experiment summary | Pipeline comparison

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

## Relationship map

Prediction column: y




## Progress map

Swap view

Experiment completed

8 PIPELINES GENERATED

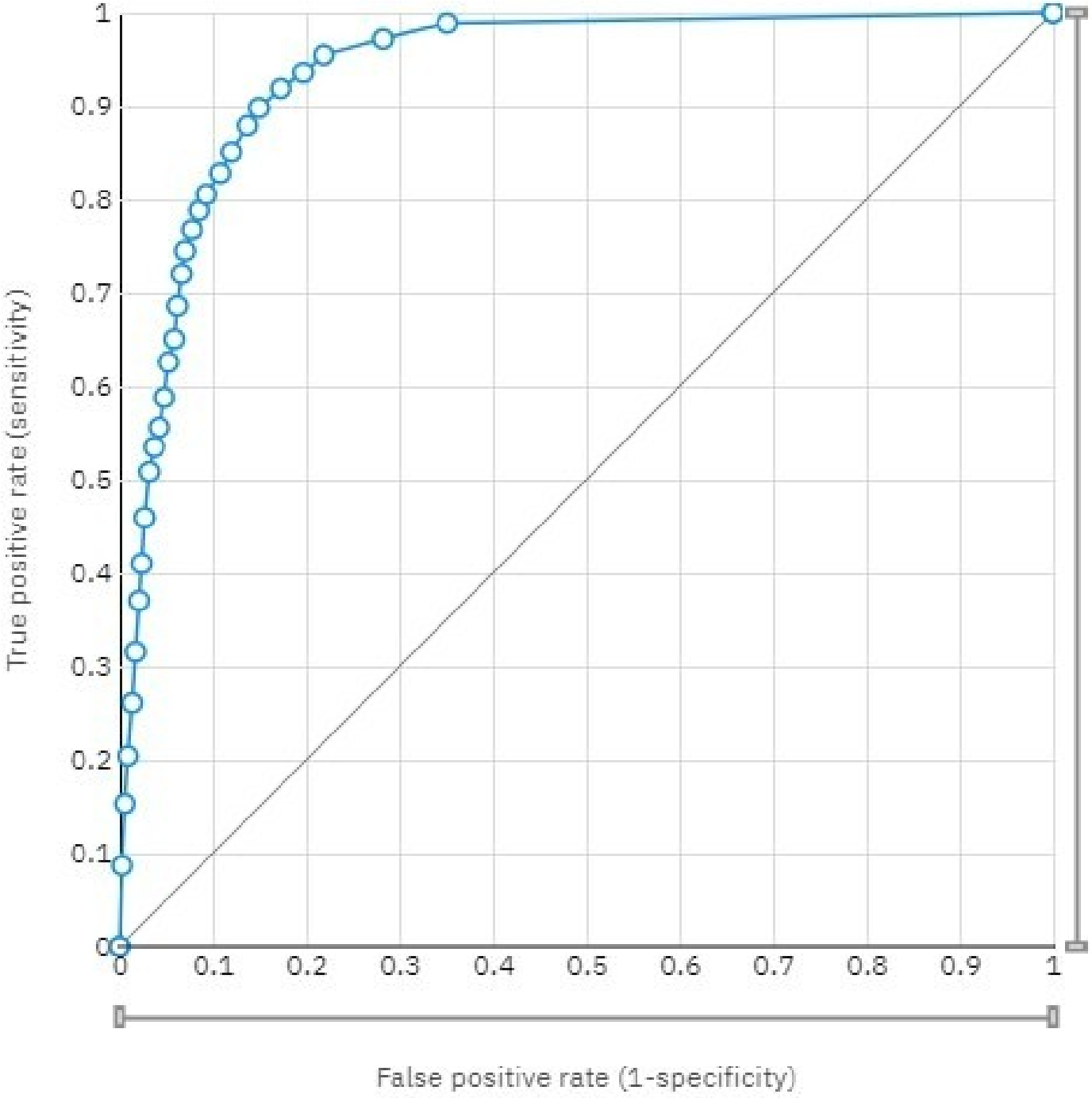
8 pipelines generated from algorithms. See pipeline leaderboard below for more detail.

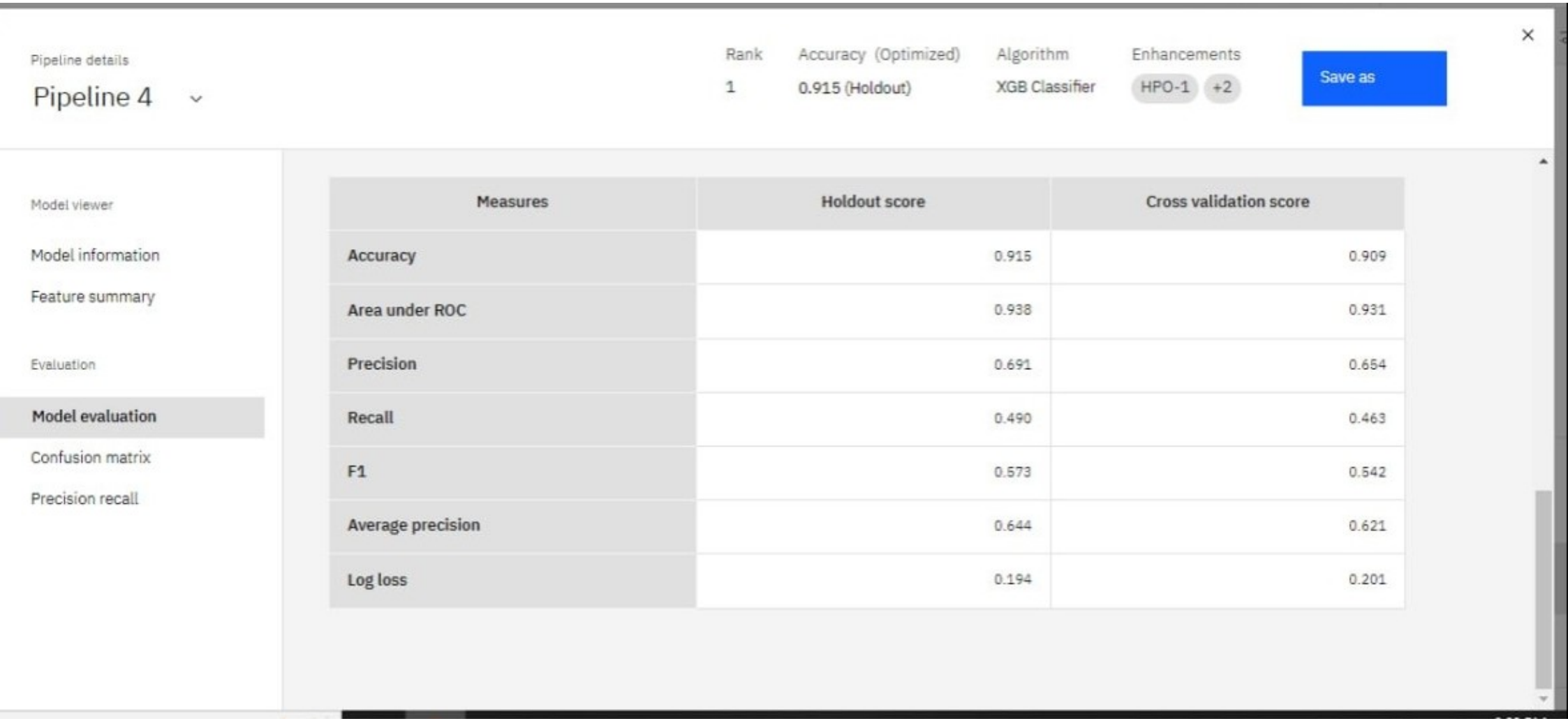
*Time elapsed: 11 minutes*

View log | Save code

## Pipeline leaderboard

Pipeline details
Pipeline 4
Rank
1
Accuracy (Optimized)
0.915 (Holdout)
Algorithm
XGB Classifier
Enhancements
HPO-1
+2
Save as
Model viewer
Model information
Feature summary
Evaluation
Model evaluation
Confusion matrix
Precision recall
Confusion matrix
Observed
Predicted
yes
no
Percent correct
yes
259
270
49.0%
no
116
3877
97.1%
Percent correct
69.1%
93.5%
91.5%
Less correct
More correct


True positive rate (sensitivity)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
False positive rate (1-specificity)


Pipeline details
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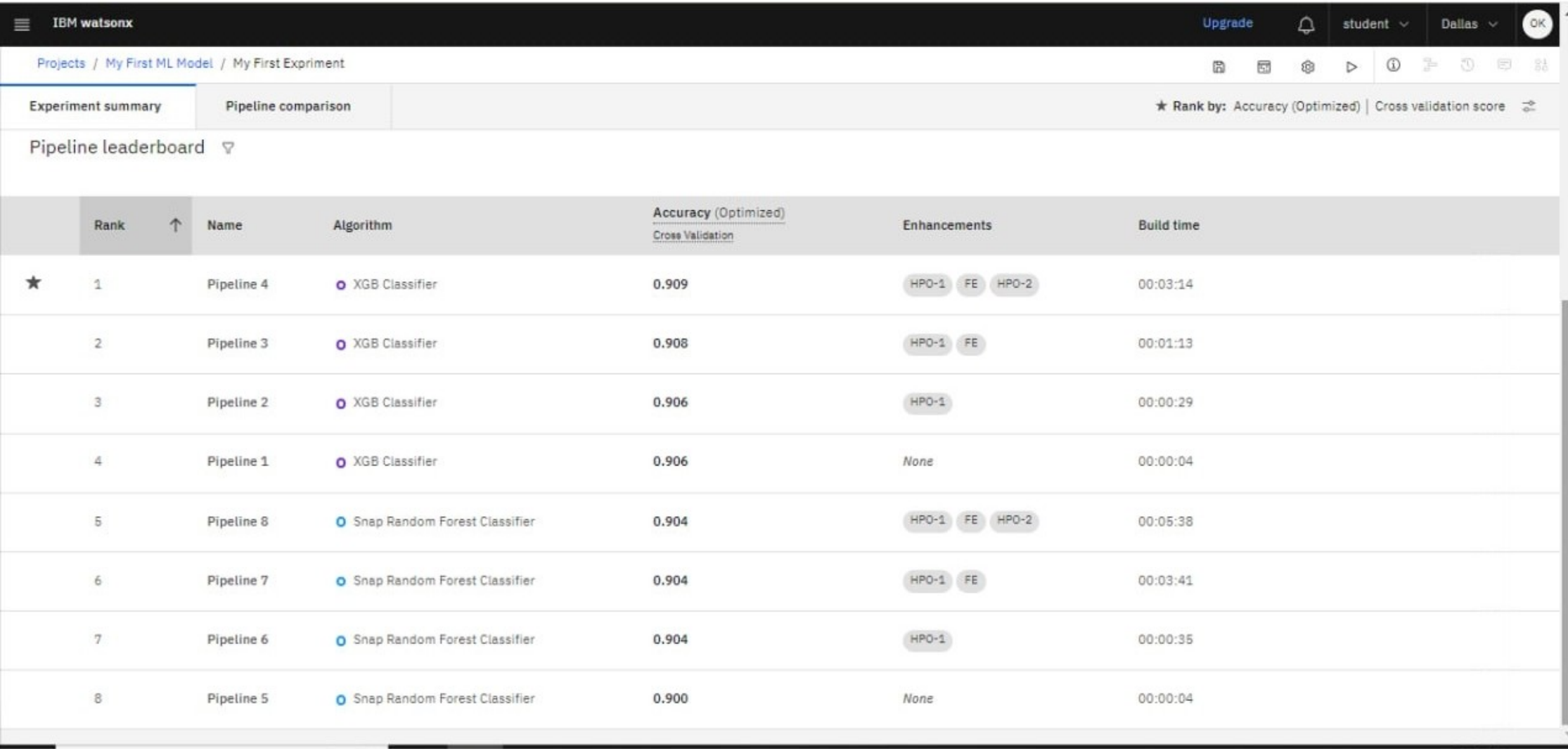
Confusion matrix
Precision recall
Measures
Holdout score
Cross validation score
Accuracy 0.915 0.909
Area under ROC 0.938 0.931
Precision 0.691 0.654
Recall 0.490 0.463
F1 0.573 0.542
Average precision 0.644 0.621
Log loss 0.194 0.201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Experiment summary
Pipeline comparison
★ Rank by: Accuracy (Optimized) | Cross validation score
Pipeline leaderboard
Rank
Name
Algorithm
Accuracy (Optimized)
Cross Validation
Enhancements
Build time
★ 1 Pipeline 4 XGB Classifier 0.909 HPO-1 FE HPO-2 00:03:14
2 Pipeline 3 XGB Classifier 0.908 HPO-1 FE 00:01:13
3 Pipeline 2 XGB Classifier 0.906 HPO-1 00:00:29
4 Pipeline 1 XGB Classifier 0.906 None 00:00:04
5 Pipeline 8 Snap Random Forest Classifier 0.904 HPO-1 FE HPO-2 00:05:38
6 Pipeline 7 Snap Random Forest Classifier 0.904 HPO-1 FE 00:03:41
7 Pipeline 6 Snap Random Forest Classifier 0.904 HPO-1 00:00:35
8 Pipeline 5 Snap Random Forest Classifier 0.900 None 00:00:04

Pipeline details

Pipeline 4

| Rank | Accuracy (Optimized) | Algorithm | Enhancements |
|---|---|---|---|
| 1 | 0.915 (Holdout) | XGB Classifier | HPO-1 +2 |

Save as

Model viewer

- Model information
- Feature summary

Evaluation

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

## Confusion matrix

| Observed | Predicted | | |
|---|---|---|---|
| | yes | no | Percent correct |
| yes | 259 | 270 | 49.0% |
| no | 116 | 3877 | 97.1% |
| Percent correct | 69.1% | 93.5% | 91.5% |

Less correct — More correct

Pipeline details

# Pipeline 4

| Rank | Accuracy (Optimized) | Algorithm | Enhancements |
|---|---|---|---|
| 1 | 0.915 (Holdout) | XGB Classifier | HPO-1 +2 |

Save as

Model viewer

- Model information
- Feature summary

Evaluation

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

| Measures | Holdout score | Cross validation score |
|---|---|---|
| **Accuracy** | 0.915 | 0.909 |
| **Area under ROC** | 0.938 | 0.931 |
| **Precision** | 0.691 | 0.654 |
| **Recall** | 0.490 | 0.463 |
| **F1** | 0.573 | 0.542 |
| **Average precision** | 0.644 | 0.621 |
| **Log loss** | 0.194 | 0.201 |

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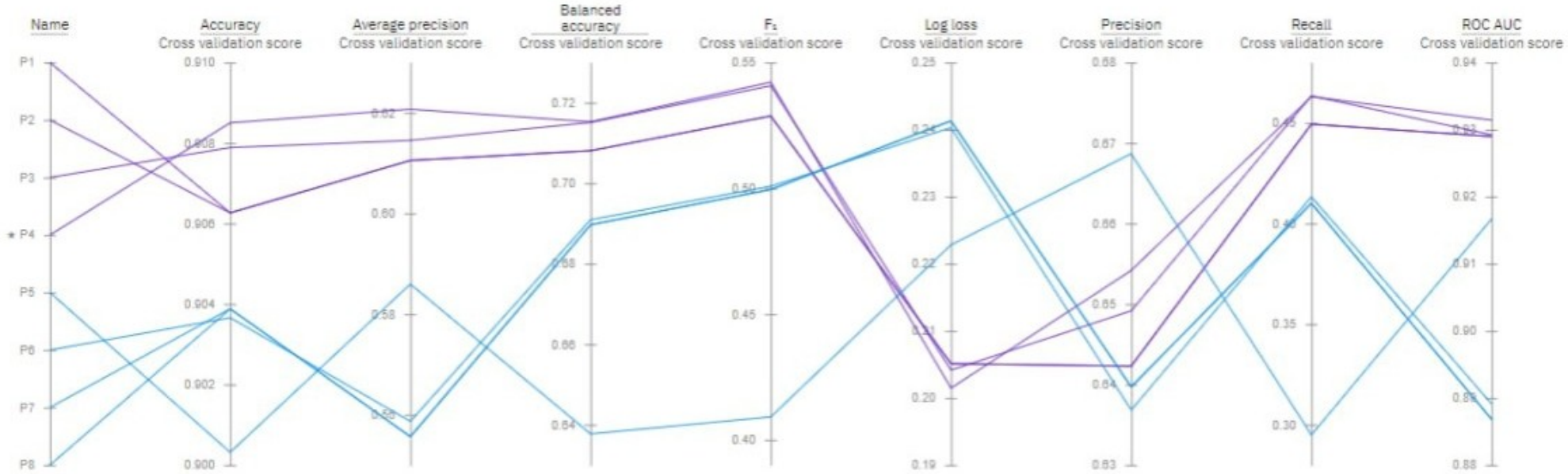
## Metric chart

Prediction column: y




## Pipeline leaderboard