

Google

Experiments - Microsoft Azure M

studio.azureml.net/Home/ViewWorkspaceCached/dde84b0fa8314319853bcb65191e24f3?#Workspaces/Experiments/Experiment/dde84b0fa8314319853bcb65191...

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Microsoft Azure Machine Learning Studio (classic)

razackar01-Free-Workspace

finding best classification model

In draft

Draft save failed, retrying...

Properties Project

Score Model

☒ Append score column...

START TIME10/21/2020...

END TIME10/21/2020...

ELAPSED TIME0:00:00.000

STATUS CODEFinished

STATUS DETAILSTask output was present in output cache

Quick Help

Score a trained classification or regression model
(more help...)

NEW

RUN HISTORY

SAVE

SAVE AS

DISCARD CHANGES

RUN

SET UP WEB SERVICE

PUBLISH TO GALLERY

Type here to search

17:59 22-10-2020

Google

Experiments - Microsoft Azure M

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Microsoft Azure Machine Learning Studio (classic)

razackar01-Free-Workspace ?

finding best classification model

In draft Properties Project

finding best classification model > Evaluate Model > Evaluation results

True Positive813False Negative6Accuracy0.992Precision0.968Threshold0.5AUC0.997

False Positive27True Negative3055Recall0.993F1 Score0.980

Positive Label1Negative Label0

| Score Bin | Positive Examples | Negative Examples | Fraction Above Threshold | Accuracy | F1 Score | Precision | Recall | Negative Precision | Negative Recall | Cumulative AUC |
|---------------|-------------------|-------------------|--------------------------|----------|----------|-----------|--------|--------------------|-----------------|----------------|
| (0.900,1.000] | 336 | 7 | 0.088 | 0.874 | 0.578 | 0.980 | 0.410 | 0.864 | 0.998 | 0.000 |
| (0.800,0.900] | 375 | 6 | 0.186 | 0.969 | 0.922 | 0.982 | 0.868 | 0.966 | 0.996 | 0.002 |
| (0.700,0.800] | 80 | 2 | 0.207 | 0.989 | 0.974 | 0.981 | 0.966 | 0.991 | 0.995 | 0.002 |
| (0.600,0.700] | 19 | 6 | 0.213 | 0.992 | 0.982 | 0.975 | 0.989 | 0.997 | 0.993 | 0.004 |
| (0.500,0.600] | 3 | 6 | 0.215 | 0.992 | 0.980 | 0.968 | 0.993 | 0.998 | 0.991 | 0.006 |
| (0.400,0.500] | 1 | 11 | 0.218 | 0.989 | 0.974 | 0.955 | 0.994 | 0.998 | 0.988 | 0.010 |

NEW

RUN HISTORYSAVESAVE ASDISCARD CHANGESRUNSET UP WEB SERVICEPUBLISH TO GALLERY

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Microsoft Azure Machine Learning Studio (classic)

razackar01-Free-Workspace

Search experiment items

Saved Datasets

My Datasets

Air_Traffic_Passenger...|||

Book1.csv.xlsx|||

datatest2.txt|||

occupancy.csv|||

occupation big.xlsx|||

project 1.csv|||

Samples

Adult Census Income...|||

Airport Codes Dataset|||

Automobile price dat...|||

Bike Rental UCI dataset|||

hypertune classification

In draft

project 1.csv

Two-Class Logistic Regression ✓

Split Data

Train Model

Score Model

Tune Model Hyperparameters

Score Model

Evaluate Model

+

NEW

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RUN HISTORY

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SAVE

💾

SAVE AS

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DISCARD CHANGES

▶️

RUN

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SET UP WEB SERVICE

👤

PUBLISH TO GALLERY

Type here to search

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18:0122-10-2020

PropertiesProject

Experiment Properties

START TIME-

END TIME-

STATUS CODEInDraft

STATUS DETAILSNone

Prior Run

Summary

Enter a few sentences describing your experiment (up to 140 characters).

Quick Help

Google

Experiments - Microsoft Azure M

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Microsoft Azure Machine Learning Studio (classic)

razackar01-Free-Workspace ?

hypertune classification

Finished running ✓ Properties Project

hypertune classification > Evaluate Model > Evaluation results

−

+

1:1

True Positive
812

False Negative
7

Accuracy
0.993

Precision
0.975

Threshold
0.5

AUC
0.996

False Positive
21

True Negative
3061

Recall
0.991

F1 Score
0.983

Positive Label
1

Negative Label
0

| Score Bin | Positive Examples | Negative Examples | Fraction Above Threshold | Accuracy | F1 Score | Precision | Recall | Negative Precision | Negative Recall | Cumulative AUC |
|---------------|-------------------|-------------------|--------------------------|----------|----------|-----------|--------|--------------------|-----------------|----------------|
| (0.900,1.000] | 795 | 15 | 0.208 | 0.990 | 0.976 | 0.981 | 0.971 | 0.992 | 0.995 | 0.003 |
| (0.800,0.900] | 14 | 2 | 0.212 | 0.993 | 0.984 | 0.979 | 0.988 | 0.997 | 0.994 | 0.003 |

+

NEW

RUN HISTORY

SAVE

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DISCARD CHANGES

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Microsoft Azure Machine Learning Studio (classic)

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?

Search experiment items

Saved Datasets

My Datasets

Air_Traffic_Passenger...

Book1.csv.xlsx

datatest2.txt

occupancy.csv

occupation big.xlsx

project 1.csv

Samples

Adult Census Income...

Airport Codes Dataset

Automobile price dat...

Bike Rental UCI dataset

cross validate best model in classification

In draft

Draft saved at 6:06:20 PM

project 1.csv

Two-Class Logistic Regression

Partition and Sample

Split Data

Cross Validate Model

1

2

Tune Model Hyperparameters

Train Model

Score Model

Score Model

Evaluate Model

+

-

1:1

PropertiesProject

Cross Validate Model

Label column

Selected columns:

Column names:

occupancy

Launch column selector

Random seed

0

Quick Help

Cross validates parameter estimates for classification or regression models by partitioning the data

(more help...)

+

NEW

RUN HISTORY

SAVE

SAVE AS

DISCARD CHANGES

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SET UP WEB SERVICE

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22-10-2020

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Microsoft Azure Machine Learning Studio (classic)

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cross validate best model in classification

Finished running

Properties Project

cross validate best model in classification > Cross Validate Model > Evaluation results by fold

rows7

columns10

| | | | | | | |
|--------------------|------|---------------------|----------|----------|----------|--------|
| 0 | 1950 | Logistic Regression | 0.991795 | 0.96875 | 0.992611 | 0.9805 |
| 1 | 1950 | Logistic Regression | 0.989231 | 0.952153 | 0.997494 | 0.9742 |
| 2 | 1950 | Logistic Regression | 0.994872 | 0.983759 | 0.992974 | 0.9883 |
| 3 | 1951 | Logistic Regression | 0.991287 | 0.966903 | 0.992718 | 0.9796 |
| 4 | 1951 | Logistic Regression | 0.991287 | 0.961905 | 0.997531 | 0.9793 |
| Mean | 9752 | Logistic Regression | 0.991694 | 0.966694 | 0.994666 | 0.9804 |
| Standard Deviation | 9752 | Logistic Regression | 0.002032 | 0.011509 | 0.002602 | 0.0050 |

Statistics

Visualizations

To view, select a column in the table.

NEW

RUN HISTORY

SAVE

SAVE AS

DISCARD CHANGES

RUN

SET UP WEB SERVICE

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