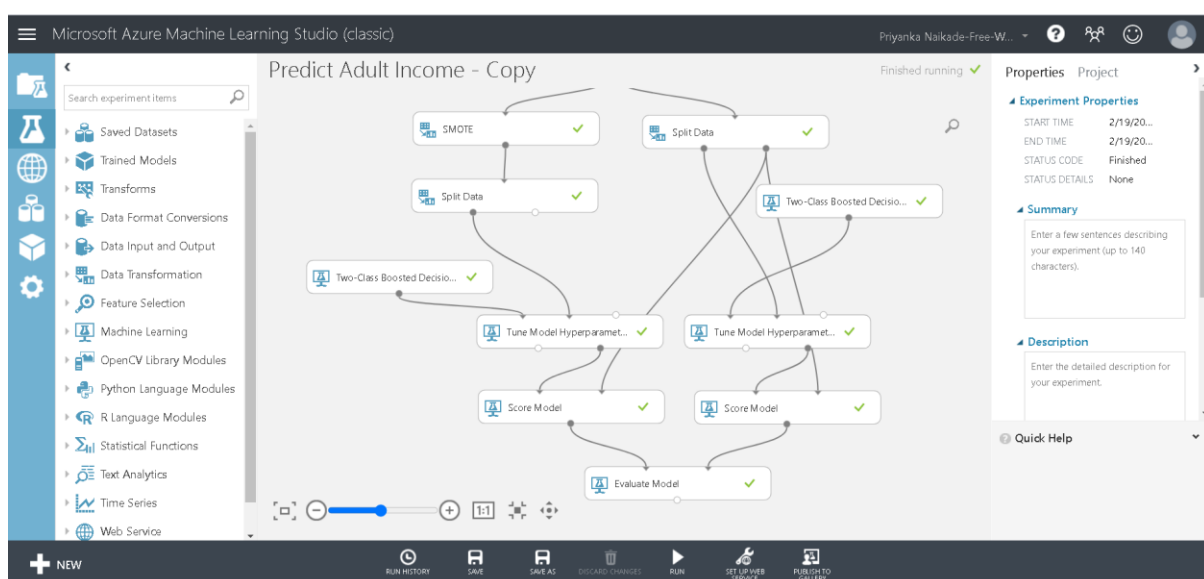
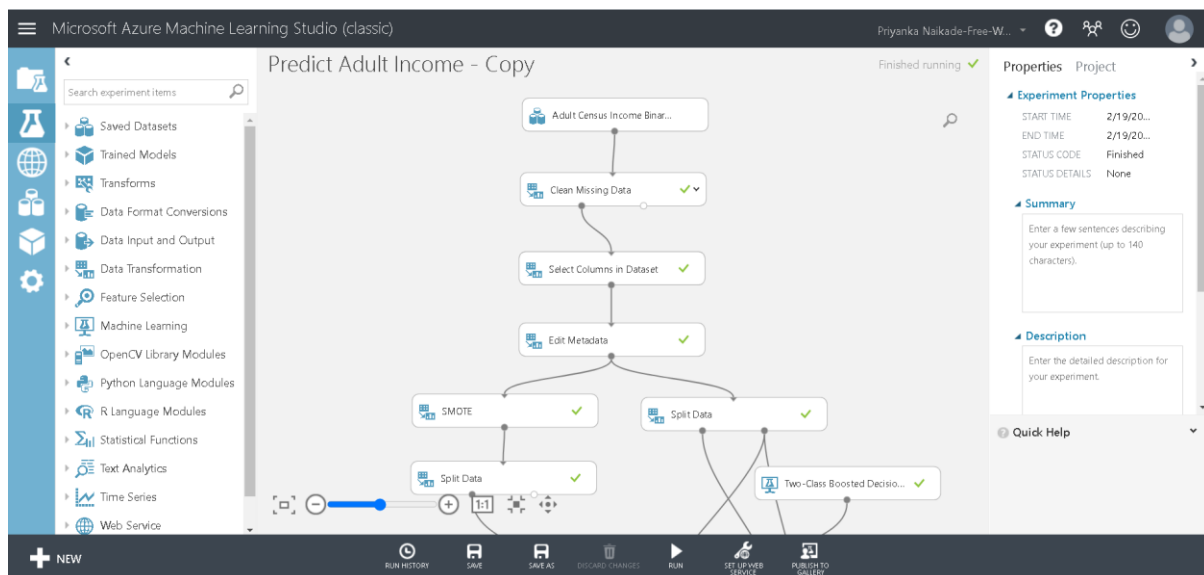


Predicting Adult Income by Building End-to-End Machine learning Pipeline using Azure ML Studio



Choosing the best classifier and setting up as a web service:

1. Choose the best classifier and run the training.
2. Next, Under the 'Set up Web Service' – Select the option – “Predictive Web Service” option.
3. Run and select Deploy Web Service

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

Predict Adult Income - Copy

Finished running ✓

Properties **Project**

Experiment Properties

START TIME	2/19/20...
END TIME	2/19/20...
STATUS CODE	Finished
STATUS DETAILS	None

Summary

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

Description

Enter the detailed description for your experiment.

Quick Help

NEW

<https://studio.azureml.net/Home/ViewWorkspaceCached/72e5dddb15dc4b30a62172181b1a504#>

SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

Predict Adult Income

Finished running ✓

Properties **Project**

Experiment Properties

START TIME	2/1/202...
END TIME	2/1/202...
STATUS CODE	Finished
STATUS DETAILS	None

Summary

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

Description

Enter the detailed description for your experiment.

Quick Help

NEW

Training experiment **Predictive experiment**

RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

Training experiment Predictive experiment

Predict Adult Income

Finished running ✓

Properties Project

Experiment Properties

START TIME 2/1/202...
END TIME 2/1/202...
STATUS CODE Finished
STATUS DETAILS None

Prior Run

Summary

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

Description

Enter the detailed description for your experiment.

Quick Help

NEW RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN SET UP WEB SERVICE PUBLISH TO GALLERY

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

Training experiment Predictive experime...

Predict Adult Income [Predictive Exp.]

Finished running ✓

Properties Project

Experiment Properties

START TIME 2/19/20...
END TIME 2/19/20...
STATUS CODE Finished
STATUS DETAILS None

Prior Run

Summary

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

Description

Enter the detailed description for your experiment.

Quick Help

NEW RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

Training experiment Predictive experime...

Predict Adult Income [Predictive Exp.]

Finished running ✓

Properties Project

Web service output

Name
output1

Quick Help

Web service output

NEW RUN HISTORY SAVE SAVE AS DISCARD CHANGES RUN DEPLOY WEB SERVICE PUBLISH TO GALLERY

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W...

predict adult income [predictive exp.]

DASHBOARD CONFIGURATION

General [New Web Services Experience](#) [preview](#)

Published experiment

[View snapshot](#) [View latest](#)

Description

No description provided for this web service.

API key

YAI0d80B0thLpVc4AnVGLFP1H3b0W/MU+IBtH0oJL7BK19beE+a5QV6NWd65iHURJK6naYSj8CGtdqv3RQ==

Default Endpoint

API HELP PAGE	TEST	APPS	LAST UPDATED
REQUEST/RESPONSE	Test Test preview	Excel 2013 or later Excel 2010 or earlier workbook	2/19/2021 9:48:32 PM
BATCH EXECUTION	Test preview	Excel 2013 or later workbook	2/19/2021 9:48:32 PM

+ NEW

DELETE

Microsoft Azure Machine Learning Studio (classic) Web Services

Quickstart

Dashboard

Batch Request Log

Configure

Consume

Test

Swagger API

Predict Adult Income [Predictive Exp.]

default

[View in Studio \(classic\)](#)

Request-Response

Batch

input1

age

39

workclass

State-gov

fnlwgt

77516

education

Bachelors

education-num

13

marital-status

Never-married

occupation

Adm-clerical

relationship

Not-in-family

output1

Your prediction results will display here.

Microsoft Azure Machine Learning Studio (classic) Web Services

Quickstart Dashboard Batch Request Log Configure Consume **Test** Swagger API

education-num	13
marital-status	Never-married
occupation	Adm-clerical
relationship	Not-in-family
race	White
sex	Male
capital-gain	2174
capital-loss	0
hours-per-week	40
native-country	United-States
income	<=50K

Test Request-Response

After Clicking Test request-Response:

We get the prediction results of the model for the given test data input

Microsoft Azure Machine Learning Studio (classic) Web Services

Quickstart Dashboard Batch Request Log Configure Consume **Test** Swagger API

← Predict Adult Income [Predictive Exp.]

default

View in Studio (classic)

Request-Response Batch

input1

age	39
workclass	State-gov
fnlwgt	77516
education	Bachelors
education-num	13
marital-status	Never-married
occupation	Adm-clerical

output1

age	39
workclass	State-gov
education	Bachelors
marital-status	Never-married
occupation	Adm-clerical
relationship	Not-in-family
race	White

Microsoft Azure Machine Learning Studio (classic) Web Services

Quickstart Dashboard Batch Request Log Configure Consume **Test** Swagger API

education-num 15

marital-status Never-married

occupation Adm-clerical

relationship Not-in-family

race White

sex Male

capital-gain 2174

capital-loss 0

hours-per-week 40

native-country United-States

income <=50K

Test Request-Response

relationship Not-in-family

race White

sex Male

capital-gain 2174

capital-loss 0

hours-per-week 40

native-country United-States

income <=50K

Scored Labels <=50K

Scored Probabilities 6.36367940387572E-06

Microsoft Azure Machine Learning Studio (classic)

Priyanka Nalkade-Free-W...

predict adult income [predictive exp.]

DASHBOARD CONFIGURATION

General New Web Services Experience [preview](#)

Published experiment

View snapshot View latest

Description

No description provided for this web service.

API key

VA9Dk0B0thLpvc4AnVGLFP1H3b0W/MJ+18rt8D0jL78K19beE+asQV6N4M

Default Endpoint

API HELP PAGE TEST

REQUEST/RESPONSE Test

BATCH EXECUTION Test

Test Predict Adult Income [Predictive Exp.] Service

Enter data to predict

AGE

4

WORKCLASS

FNLRWGT

0

EDUCATION

EDUCATION-NUM

0

LAST UPDATED

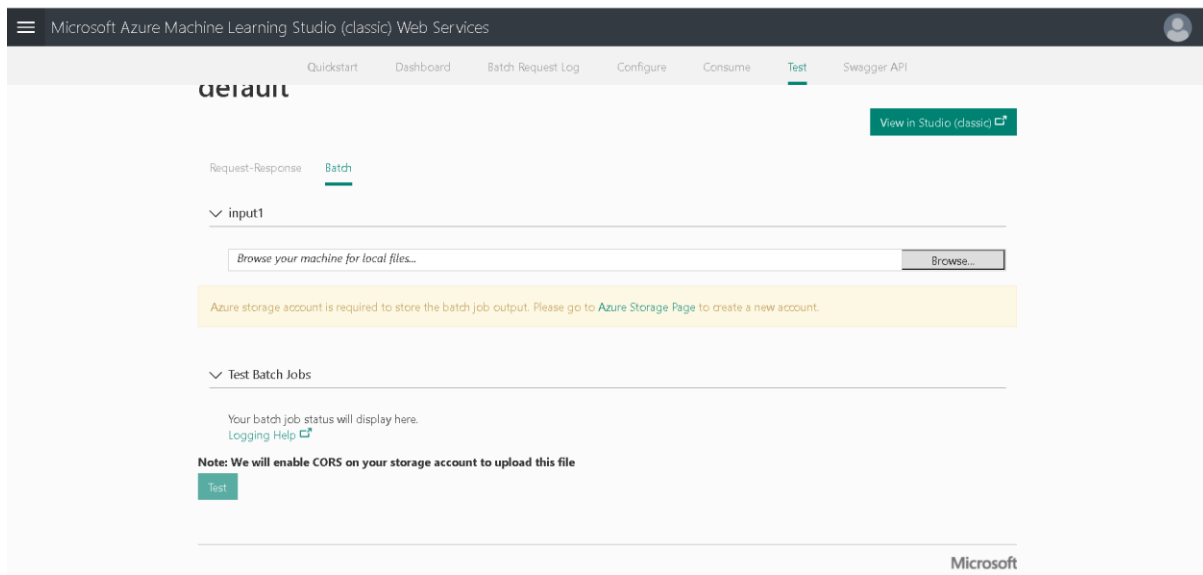
2/15/2021 9:48:32 PM

2/15/2021 9:48:32 PM

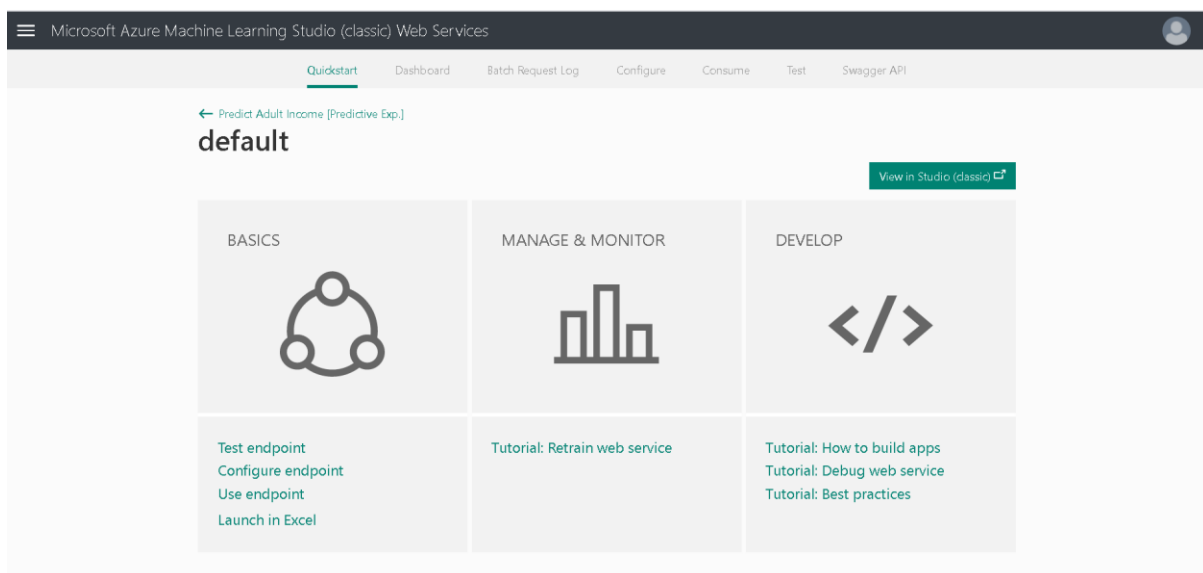
NEW

Chart

For Batch Predictions:



For Monitoring the ML Model



Deleted the Web Service after testing

Microsoft Azure Machine Learning Studio (classic)

Priyanka Naikade-Free-W... ?

predict adult income [predictive exp.]

DASHBOARD CONFIGURATION

General New Web Services Experience preview

Published experiment

View snapshot View latest

Description

No description provided for this web service.

API key

Default Endpoint

API HELP PAGE TEST APPS LAST UPDATED

REQUEST RESPONSE

BATCH EXECUTION

API key

Default Endpoint

API HELP PAGE

TEST

APPS

LAST UPDATED

REQUEST RESPONSE

BATCH EXECUTION

Are you sure to delete the web service "Predict Adult Income [Predictive Exp.]?"

YES NO

+ NEW

DELETE