Microsoft

Deploy Models

Contents

Goals and Requirements

Estimated time to complete lab is 40-45 minutes

Goals

1. Approach of Deploying the Model as Web Service .

2. Usage of Webservice in Excel and New Test Service.

Requirements:

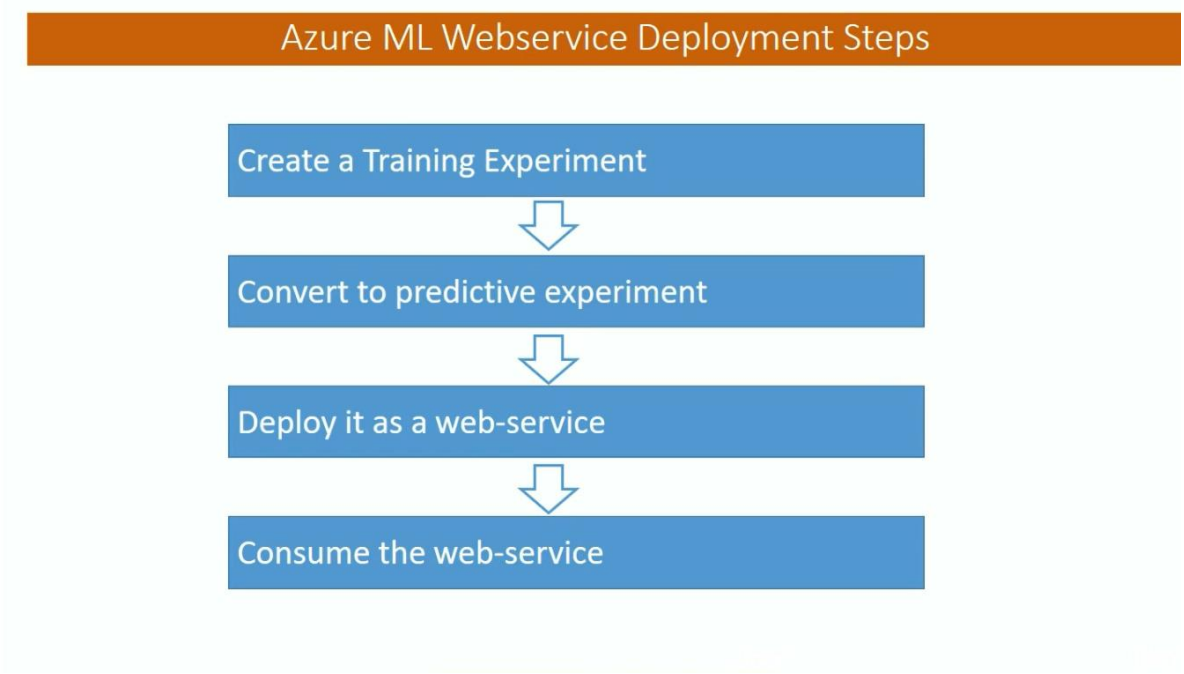
1. Access to an Azure Machine Learning Studio
2. Excel Add on for Azure Machine Learning

Deploy Models

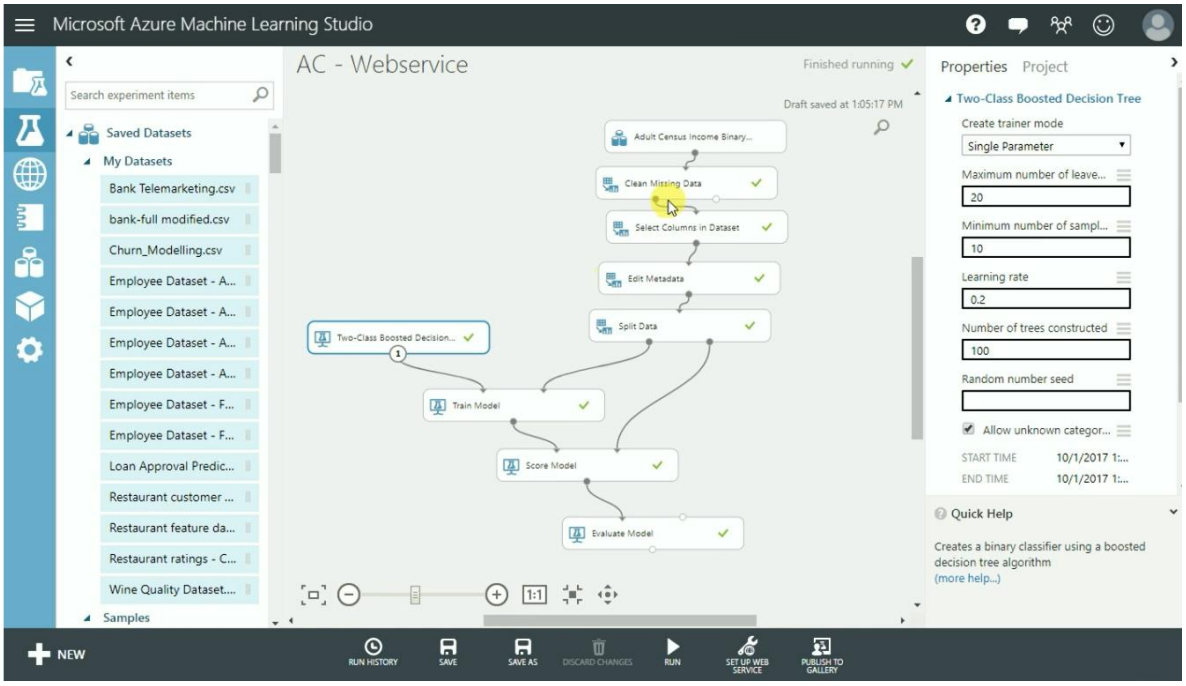
I have a Model. Now What?

- Develop but how to deploy?
- Model language is not supported
- Difficult to deploy in the current architecture
- Tedious Environment set-up
- Many more…

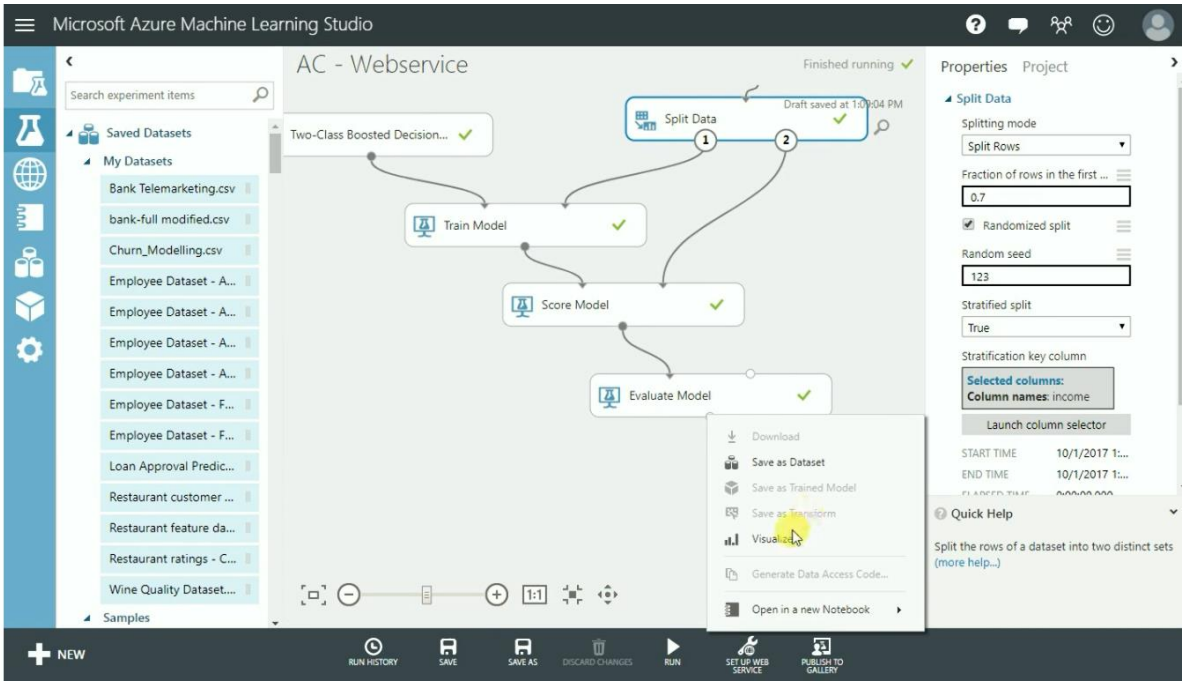
Prepare the Experiment for web service



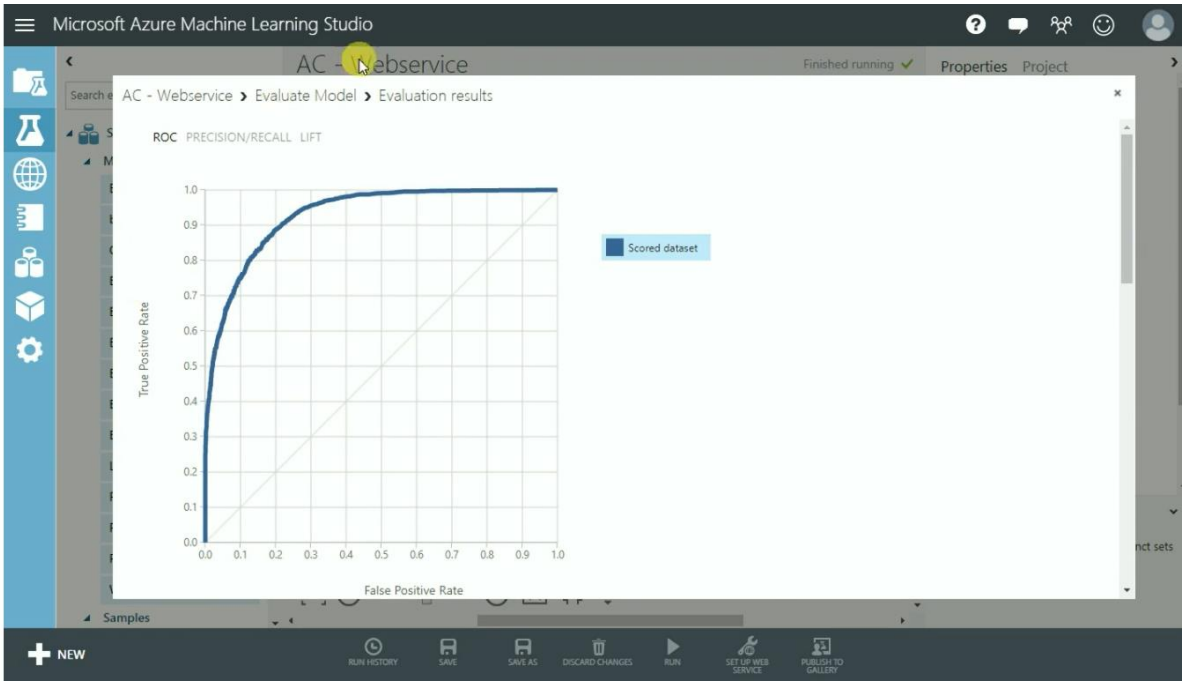
Let us take adult census income prediction model done earlier



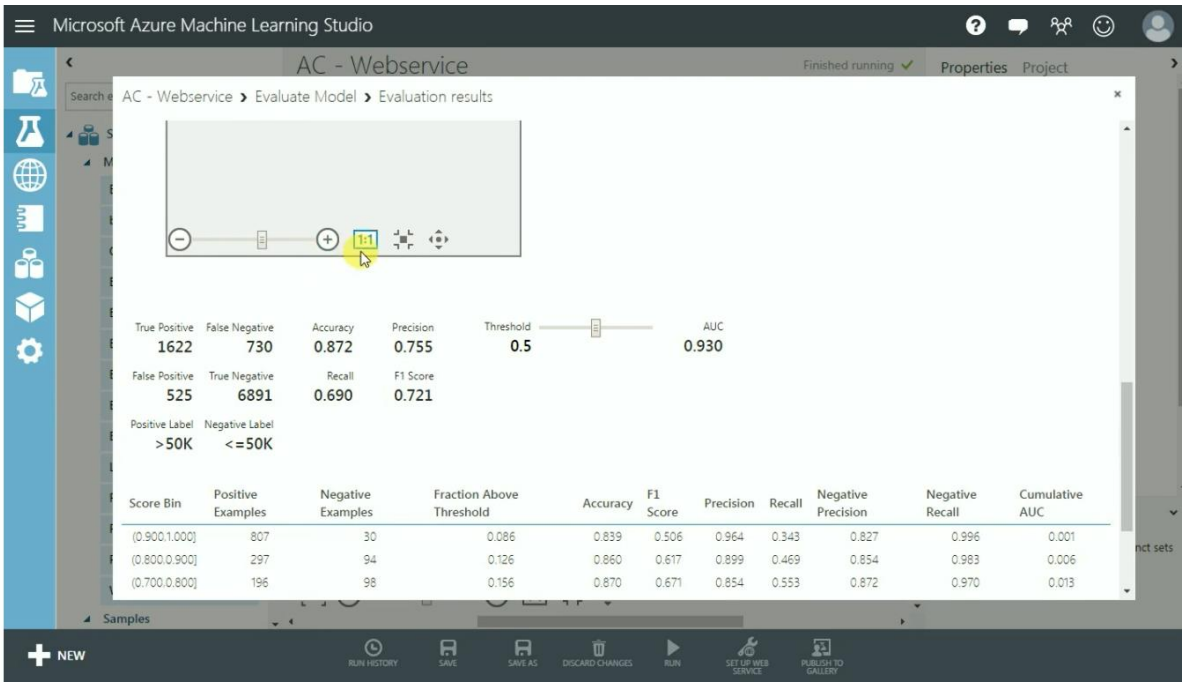
Visualize the result



Result

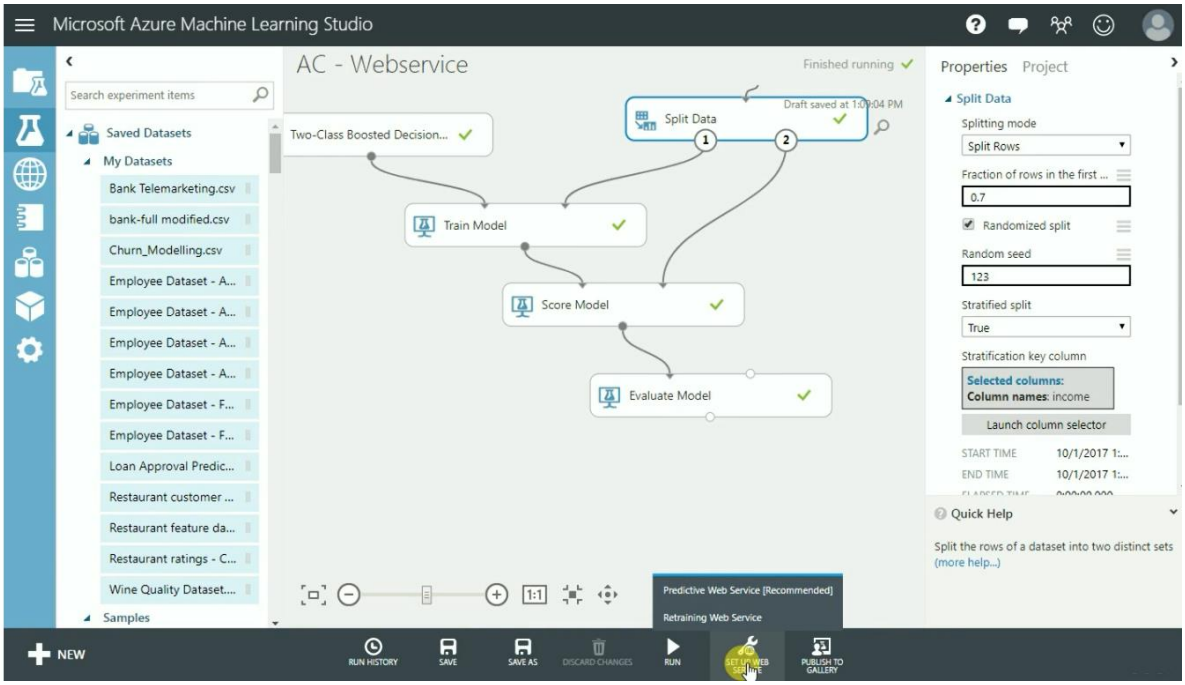


Creating Predictive Webservice

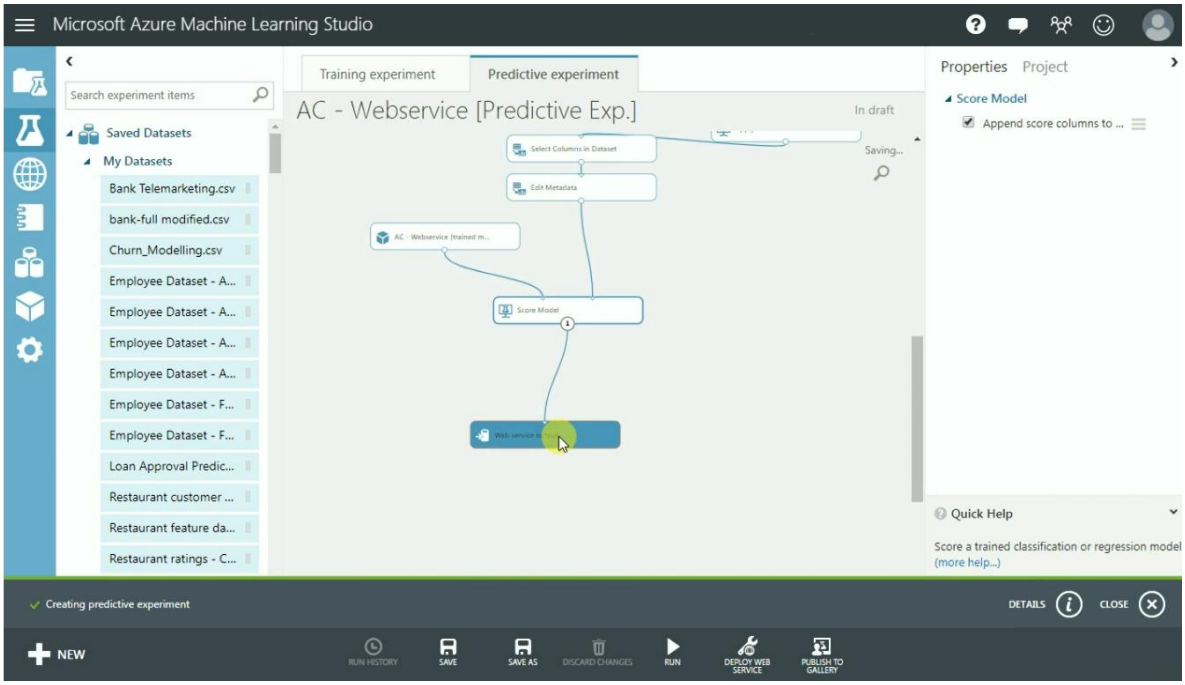


Next step is to setup the web service

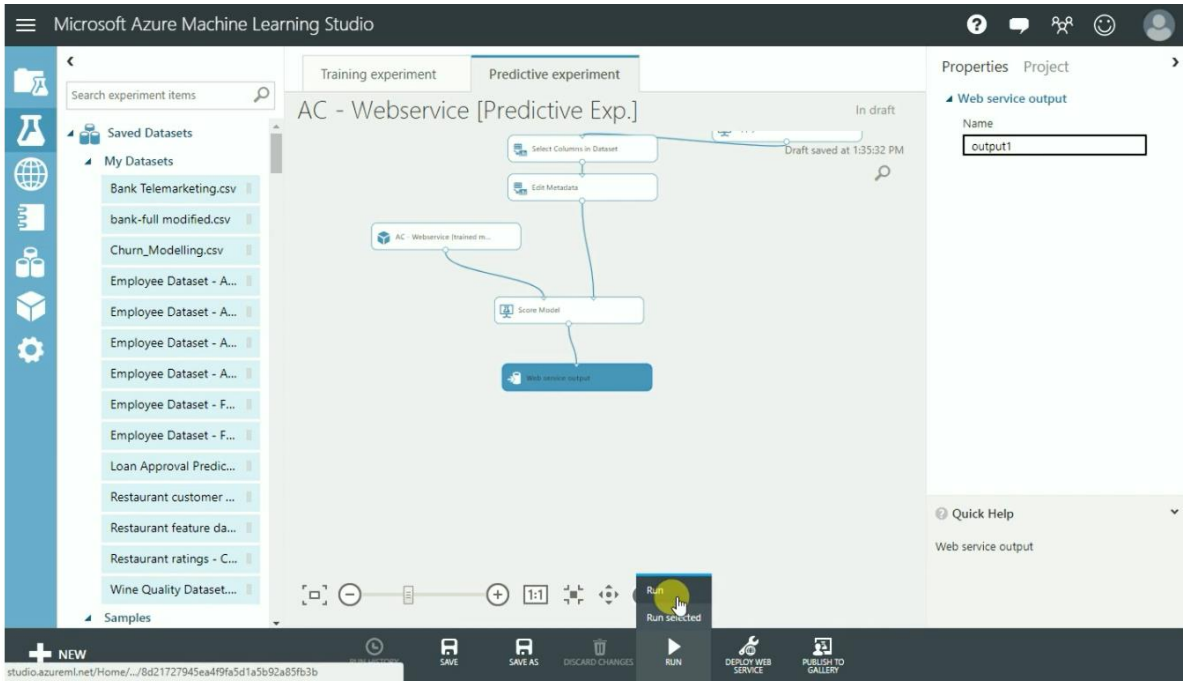
Click on predictive web service



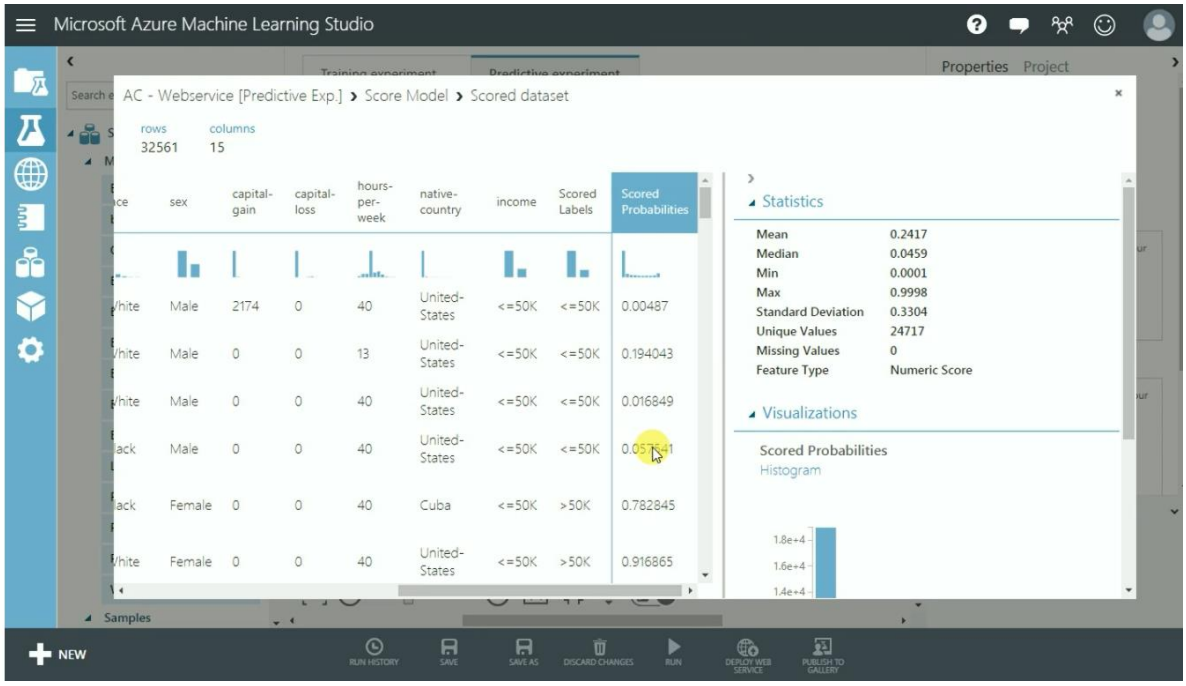
Created predictive environment



Run the predictive model

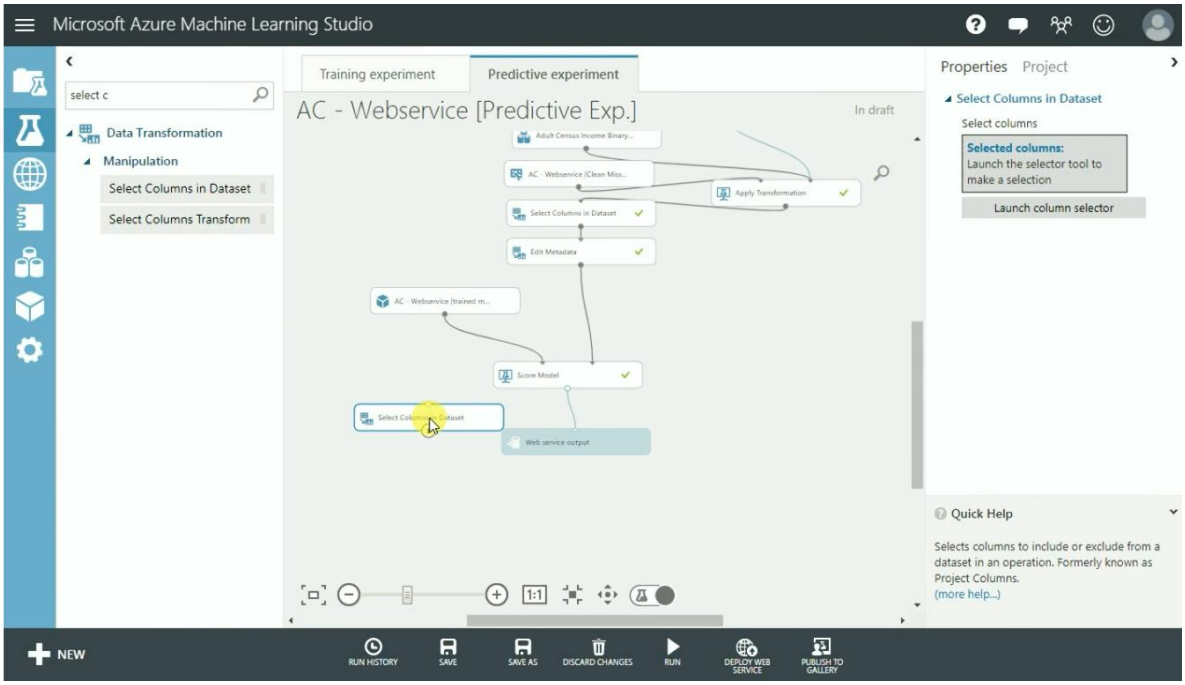


Visualize the result



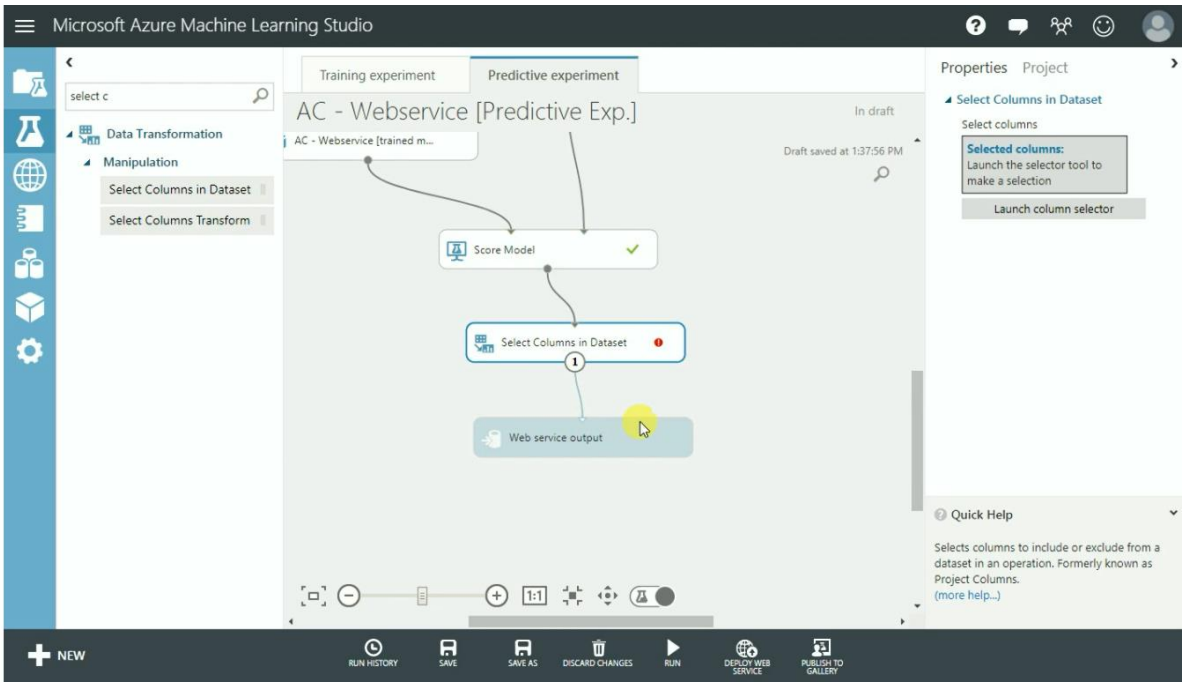
In order to separate only the required files

Add select column in dataset in canvas



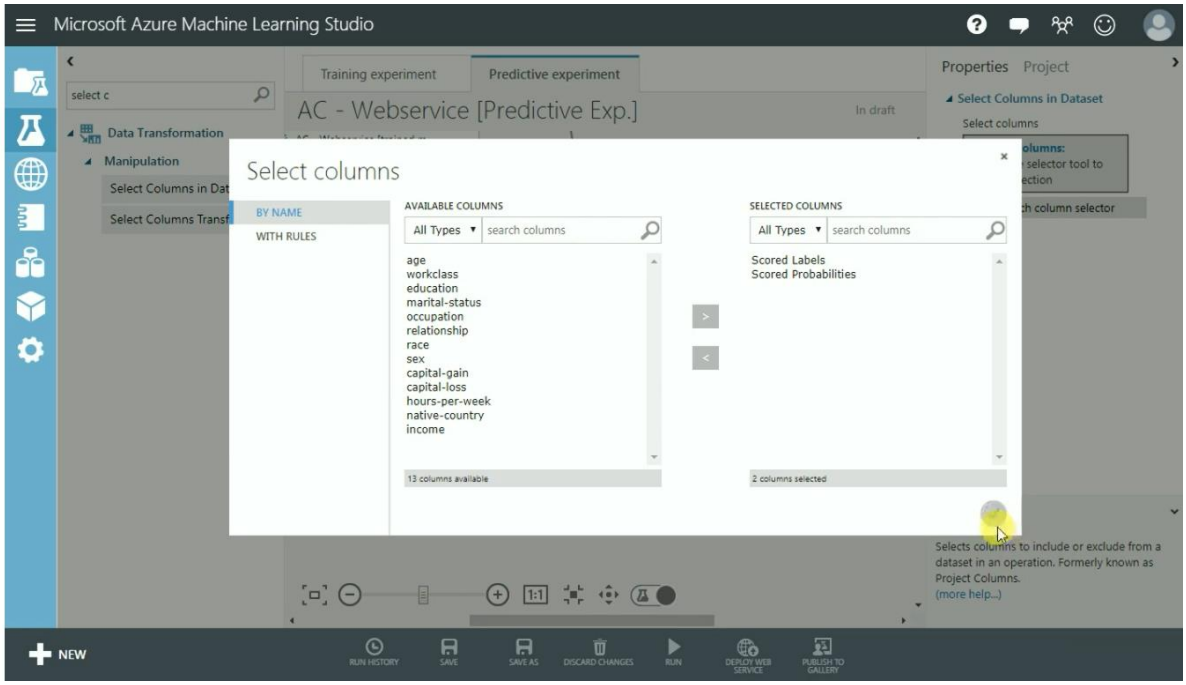
Disconnect nodes between score model and web service

Now make connections linking the select columns in dataset

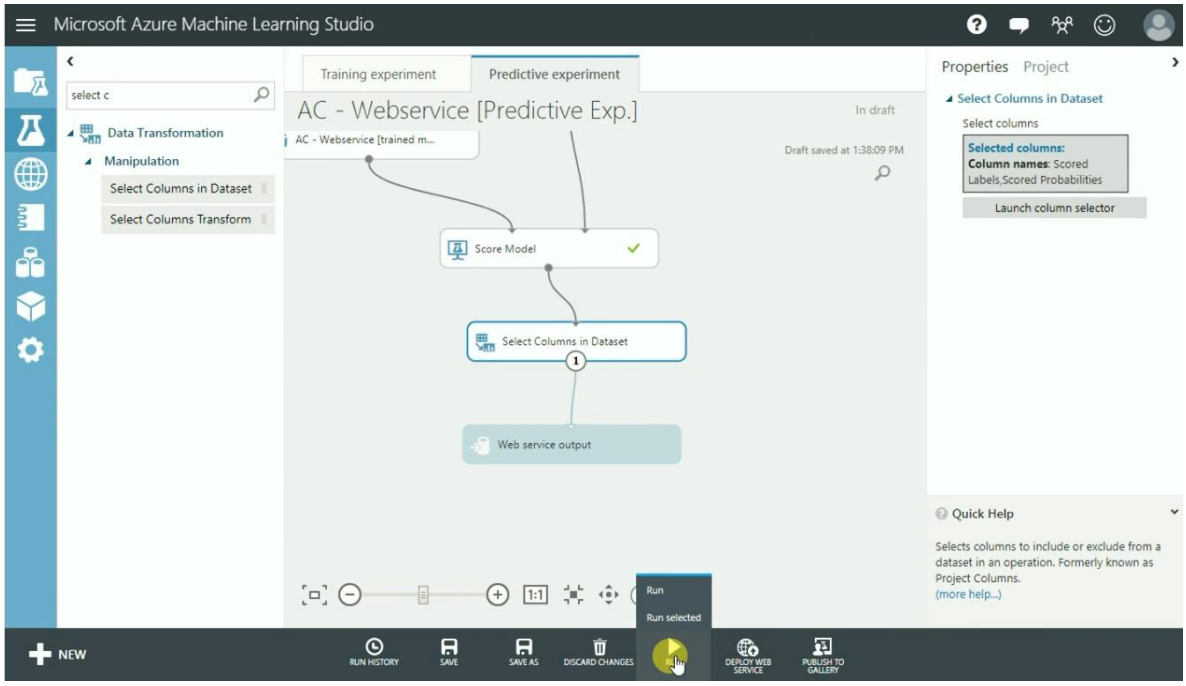


From select column dataset, click launch column selector and select only the required columns

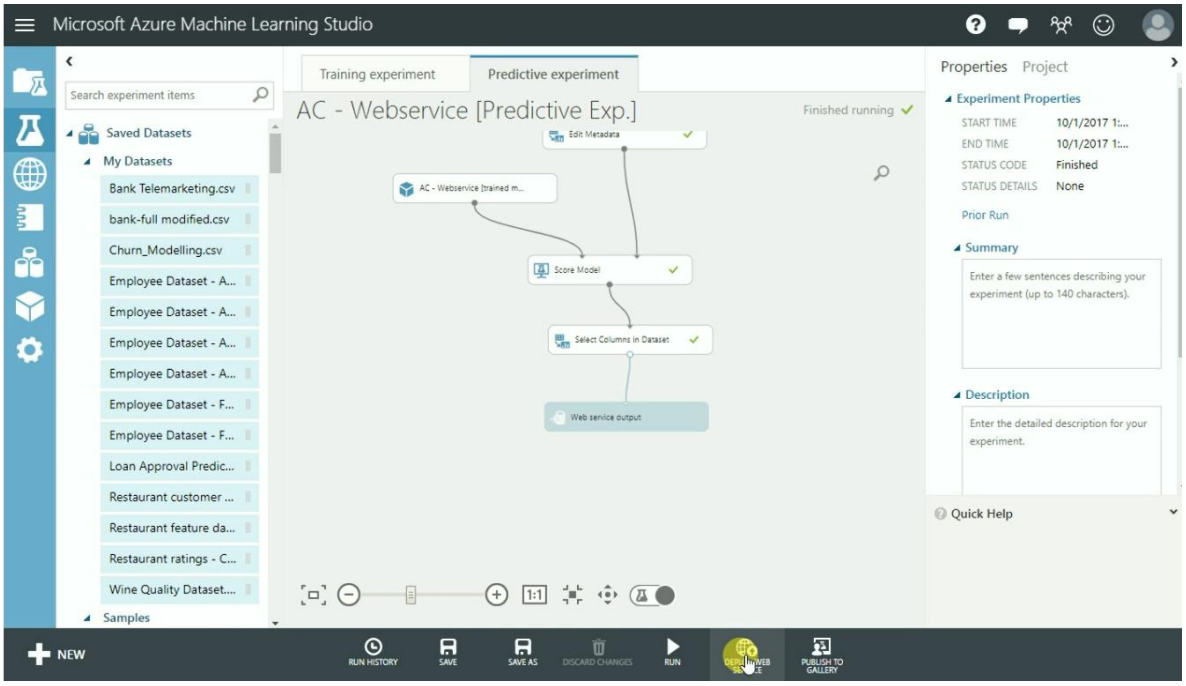
And click ok



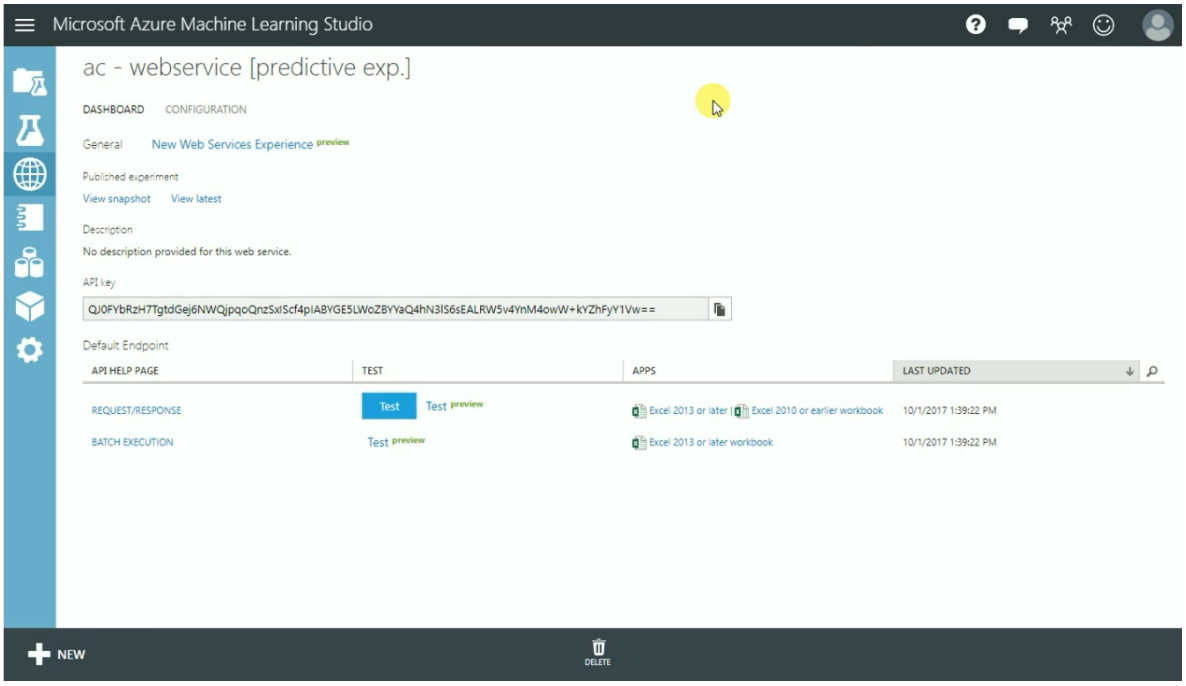
Now run the module to changes keep effect



Now click deploy web services

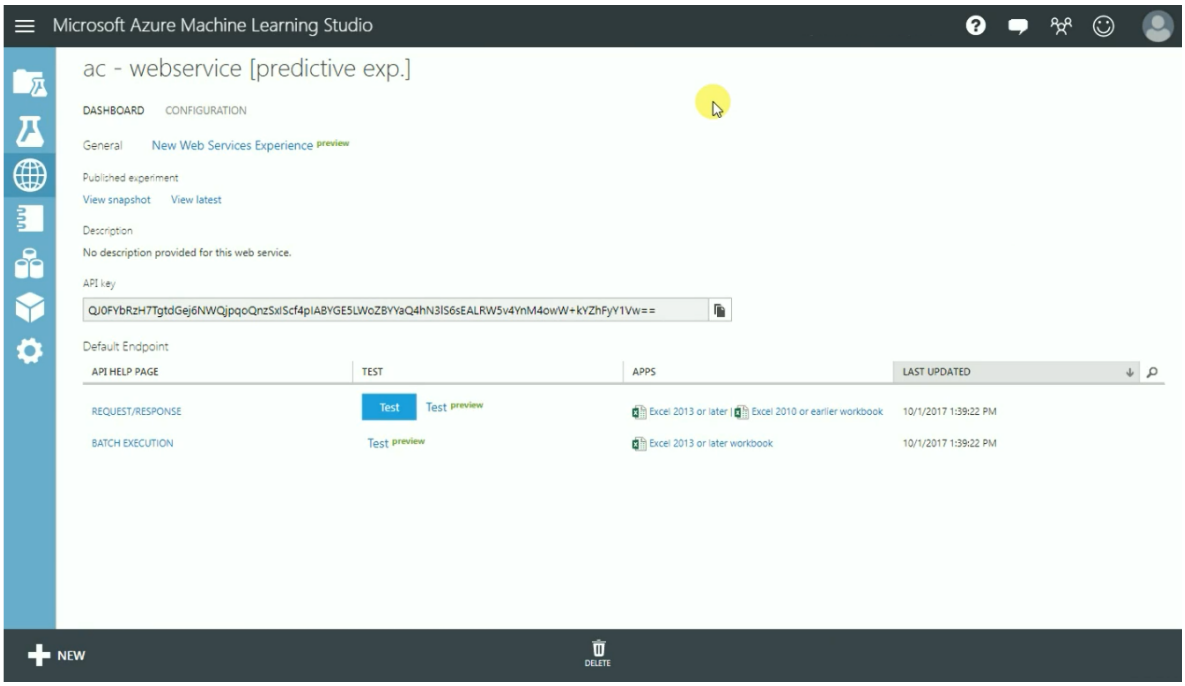

Microsoft Azure Machine Learning Studio
Search experiment items
Saved Datasets
My Datasets
Bank Telemarketing.csv
bank-full modified.csv
Churn_Modelling.csv
Employee Dataset - A...
Employee Dataset - A...
Employee Dataset - A...
Employee Dataset - A...
Employee Dataset - F...
Employee Dataset - F...
Loan Approval Predic...
Restaurant customer ...
Restaurant feature da...
Restaurant ratings - C...
Wine Quality Dataset....
Samples
Training experiment
Predictive experiment
AC - Webservice [Predictive Exp.]
Finished running
Edit Metadata
AC - Webservice [trained m...
Score Model
Select Columns in Dataset
Web service output
Properties
Project
Experiment Properties
START TIME
10/1/2017 1:...
END TIME
10/1/2017 1:...
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
PUBLISH TO GALLERY

Result

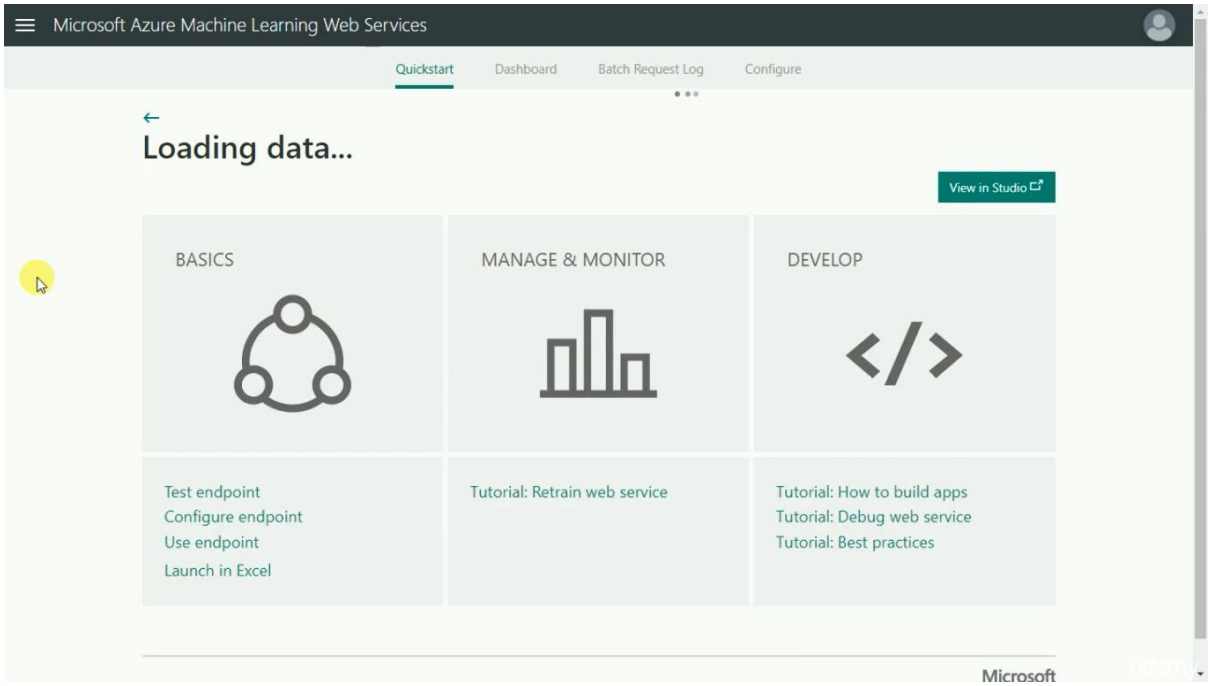

Microsoft Azure Machine Learning Studio
ac - webservice [predictive exp.]
DASHBOARD
CONFIGURATION
General
New Web Services Experience preview
Published experiment
View snapshot
View latest
Description
No description provided for this web service.
API key
QJ0FYbRzH7TgtdGej6NWQjpqoQnzSxlScf4pIABYGE5LWoZBYYaQ4hN3IS6sEALRW5v4YnM4owW+kYZhFyY1Vw==
Default Endpoint
API HELP PAGE
TEST
APPS
LAST UPDATED
REQUEST/RESPONSE
Test
Test preview
Excel 2013 or later
Excel 2010 or earlier workbook
10/1/2017 1:39:22 PM
BATCH EXECUTION
Test preview
Excel 2013 or later workbook
10/1/2017 1:39:22 PM
NEW
DELETE

Using the Webservice

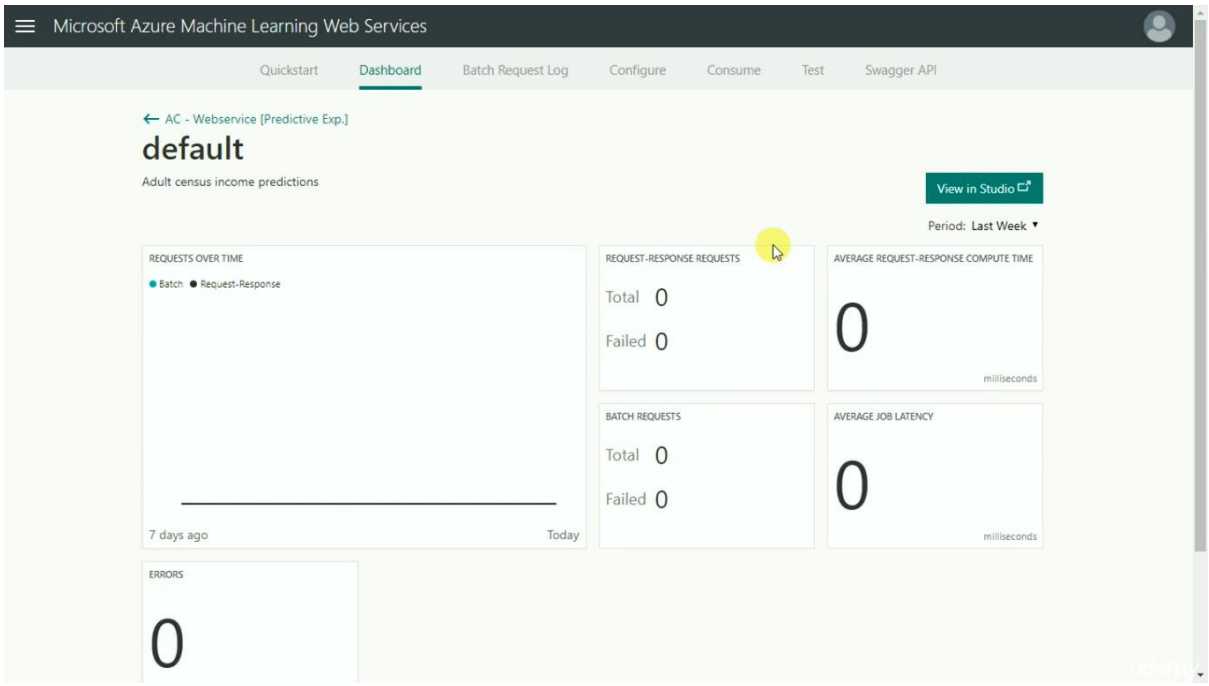
From the output of adult census income predictions



The new experience link in the result take you to quick start

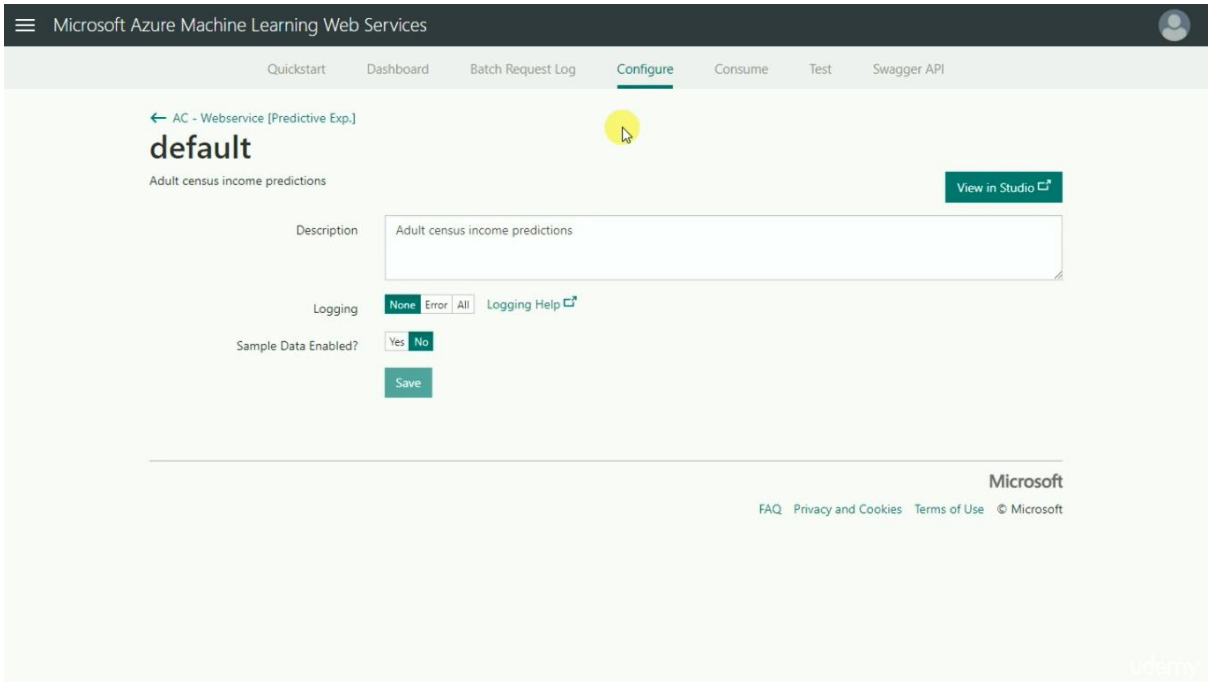


Dashboard shows how many requests have been made, Average compute time , batch request etc

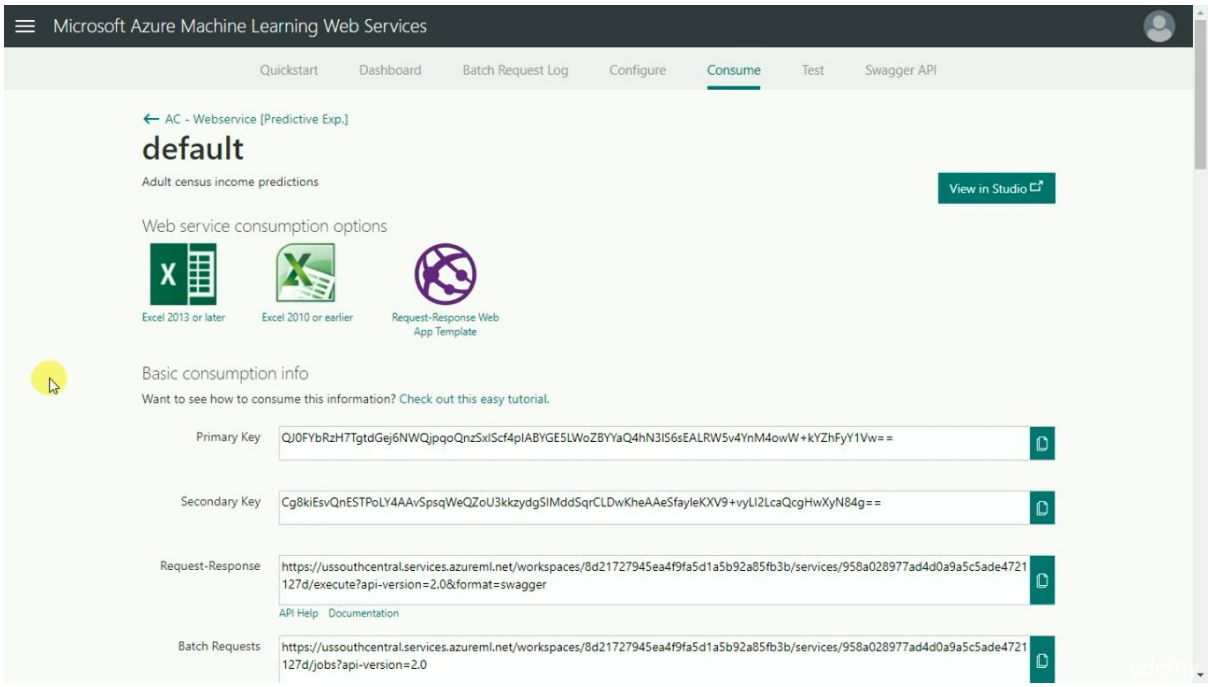


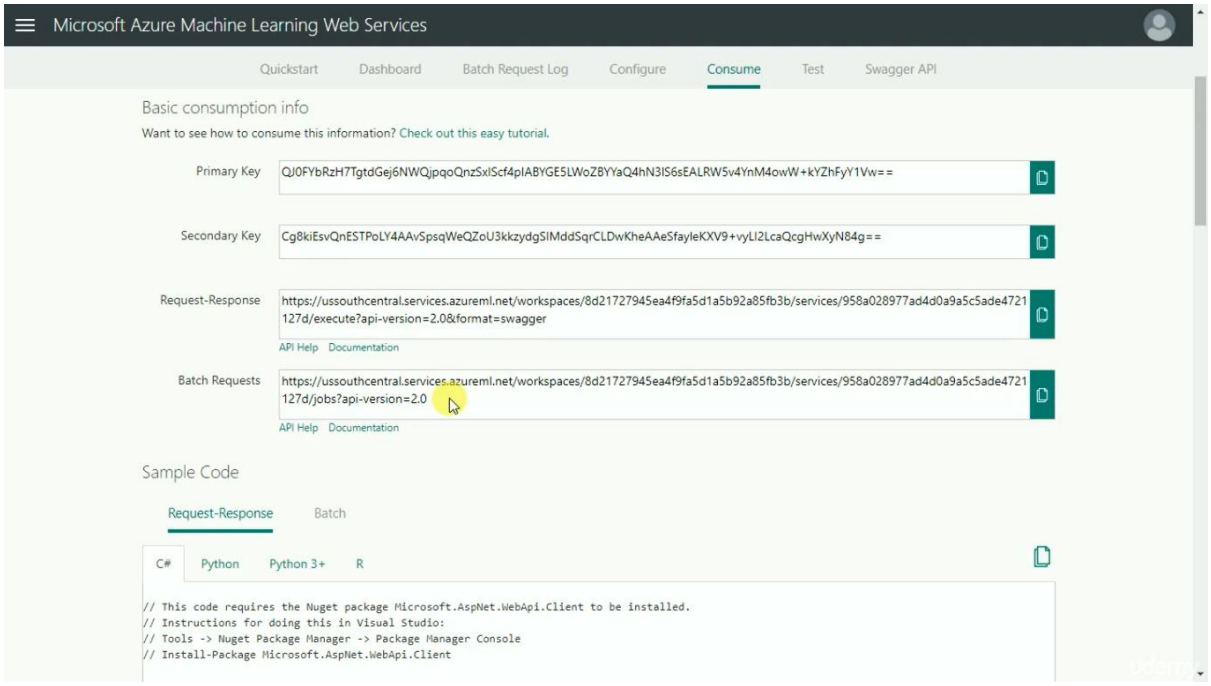
In configure you can change description and what kind of login you have

And can check the end points in sample data enabled

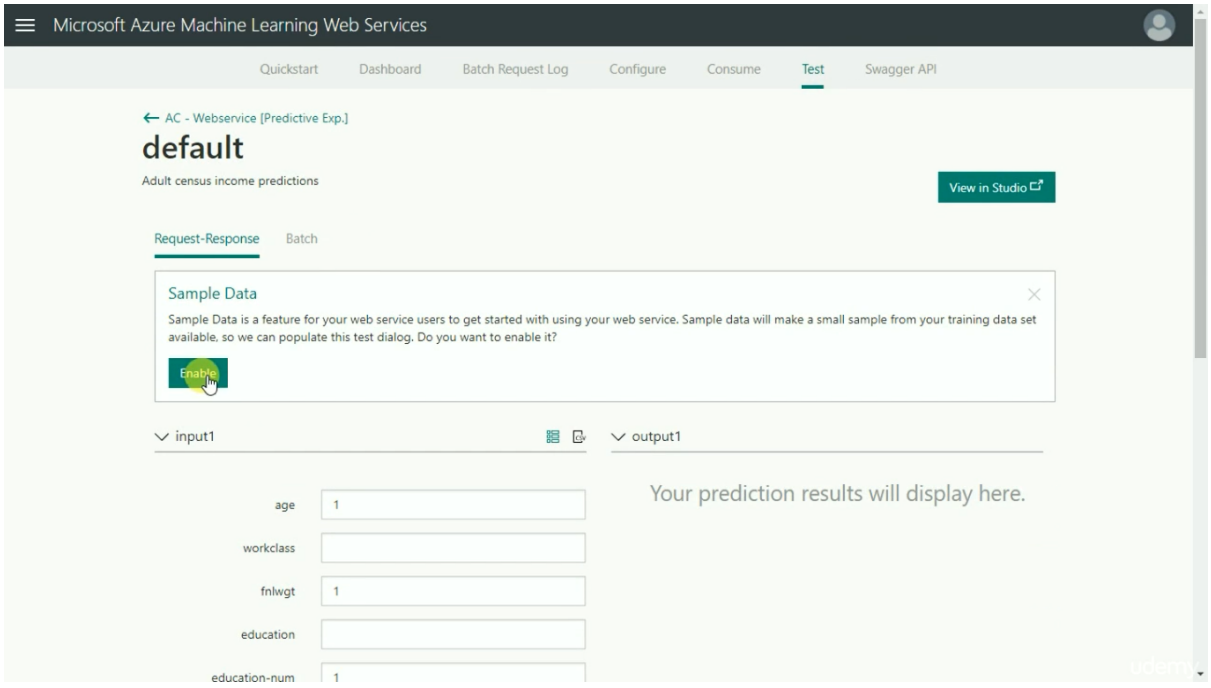


Can perform excel operations and provide other information and sample code

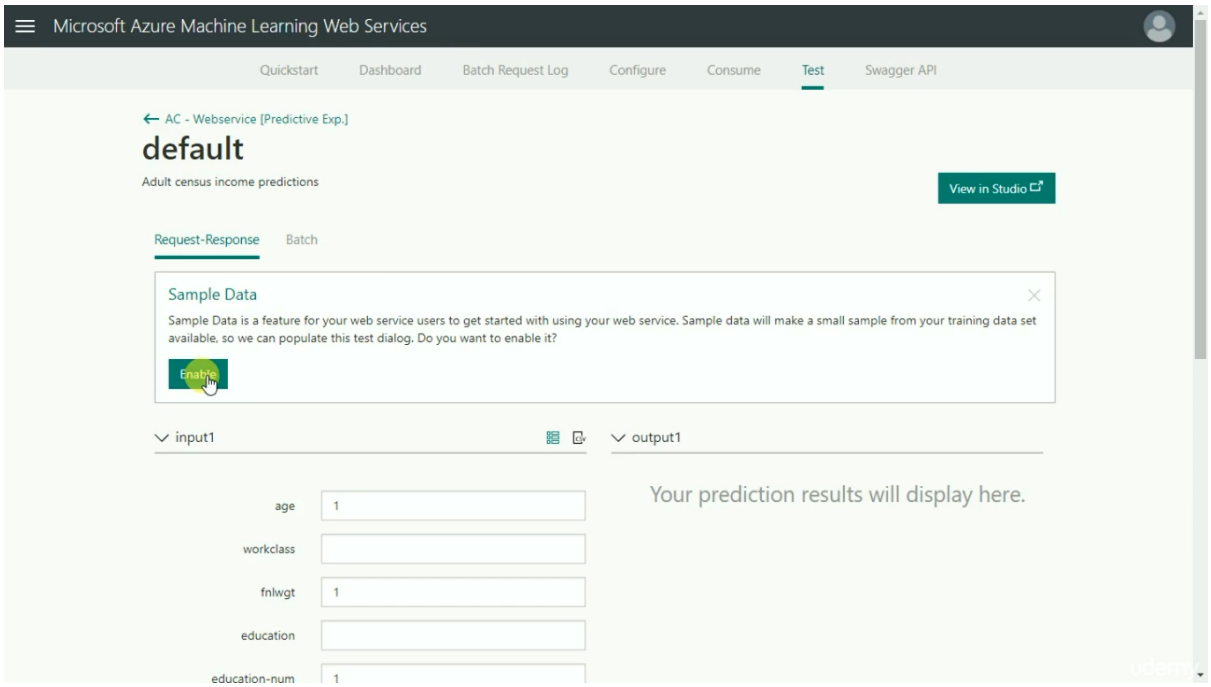




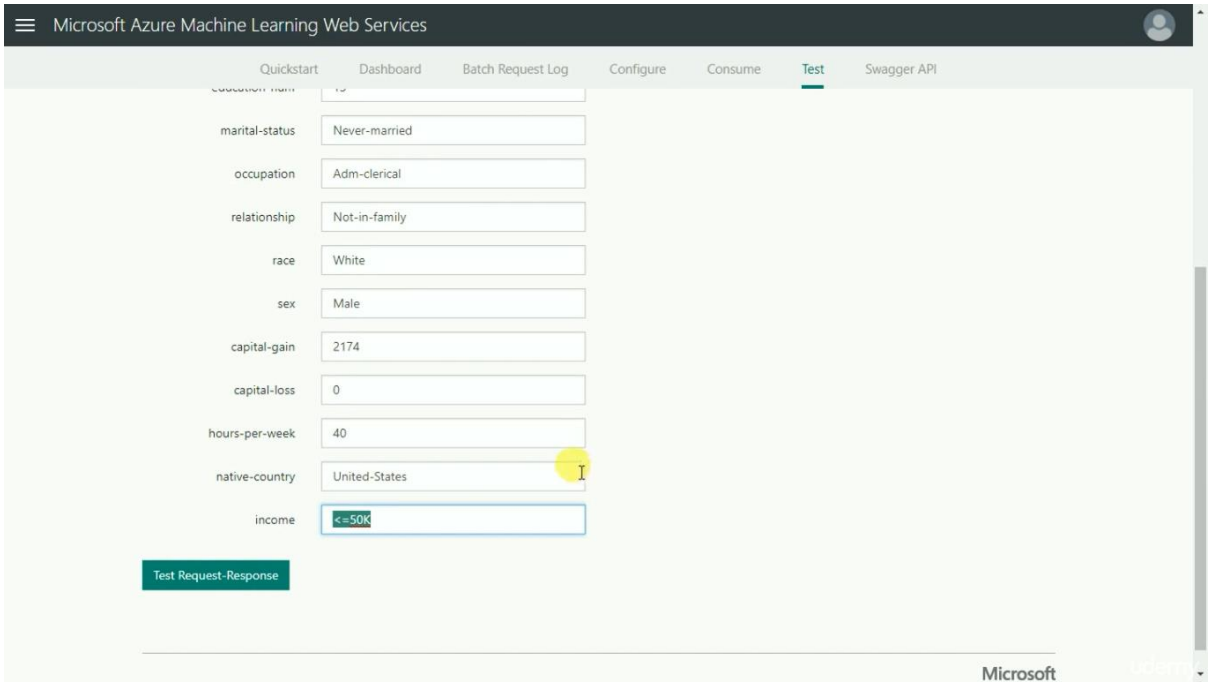
You can test the webservice by test tab



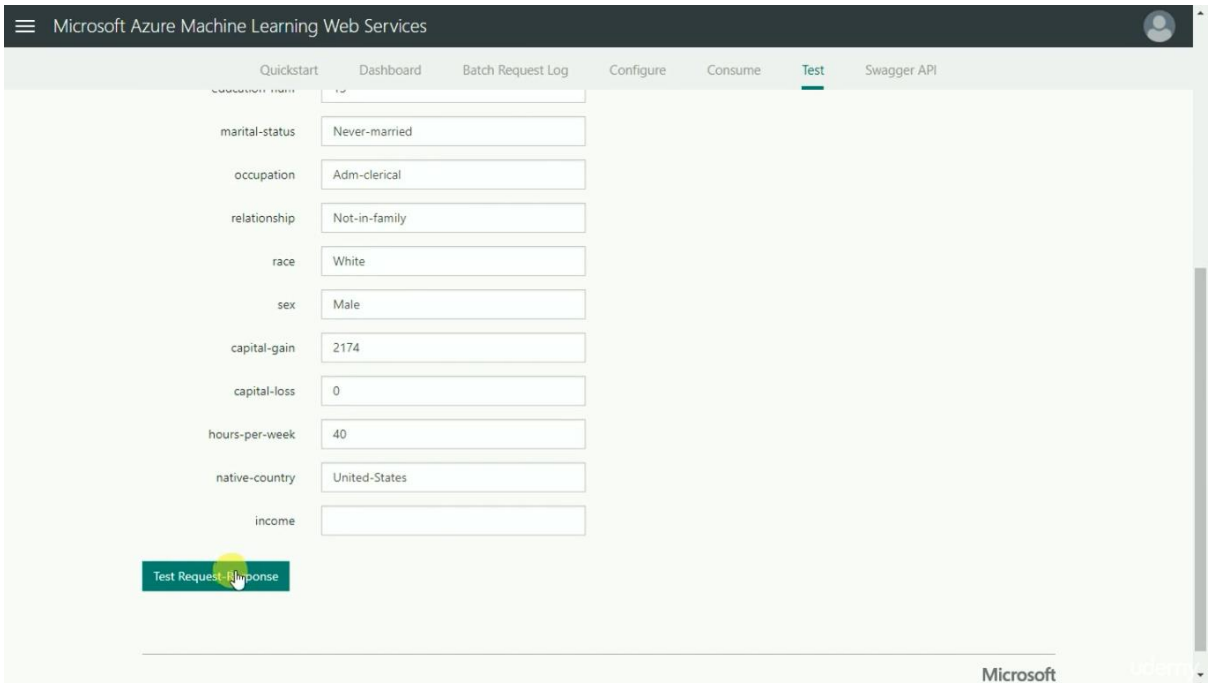
Enable sample data to reduce typing work



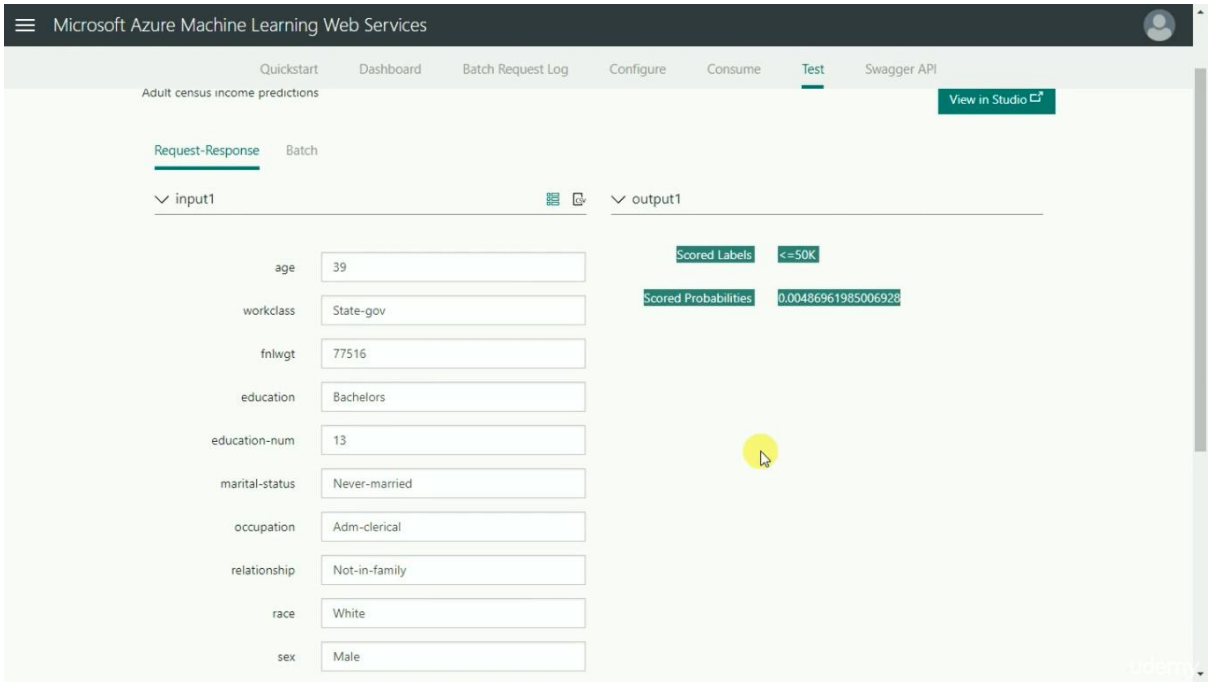
Can view the data populated once sample data enabled



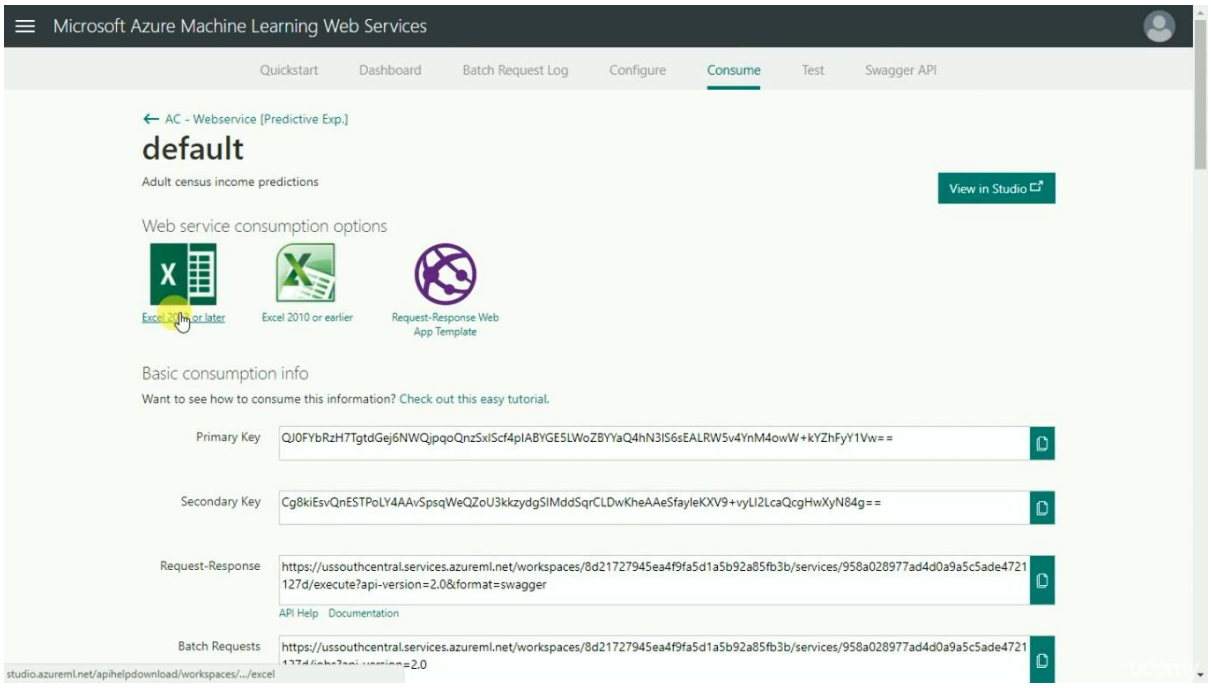
Click on test request response



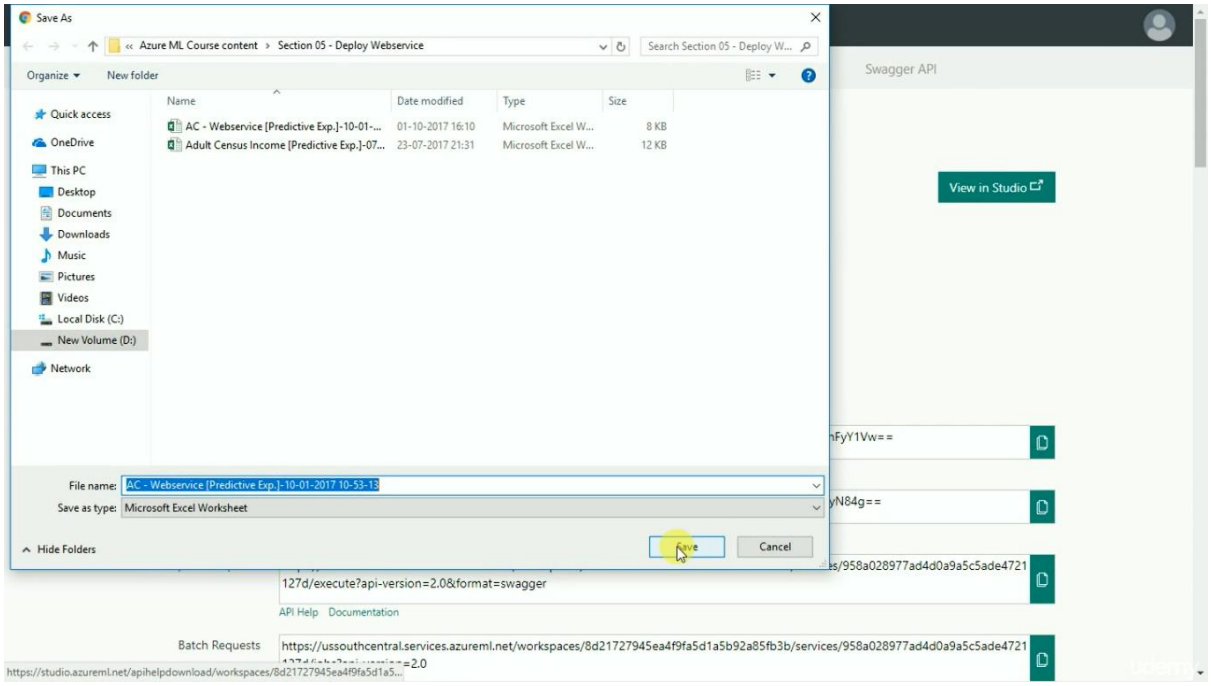
As a Result



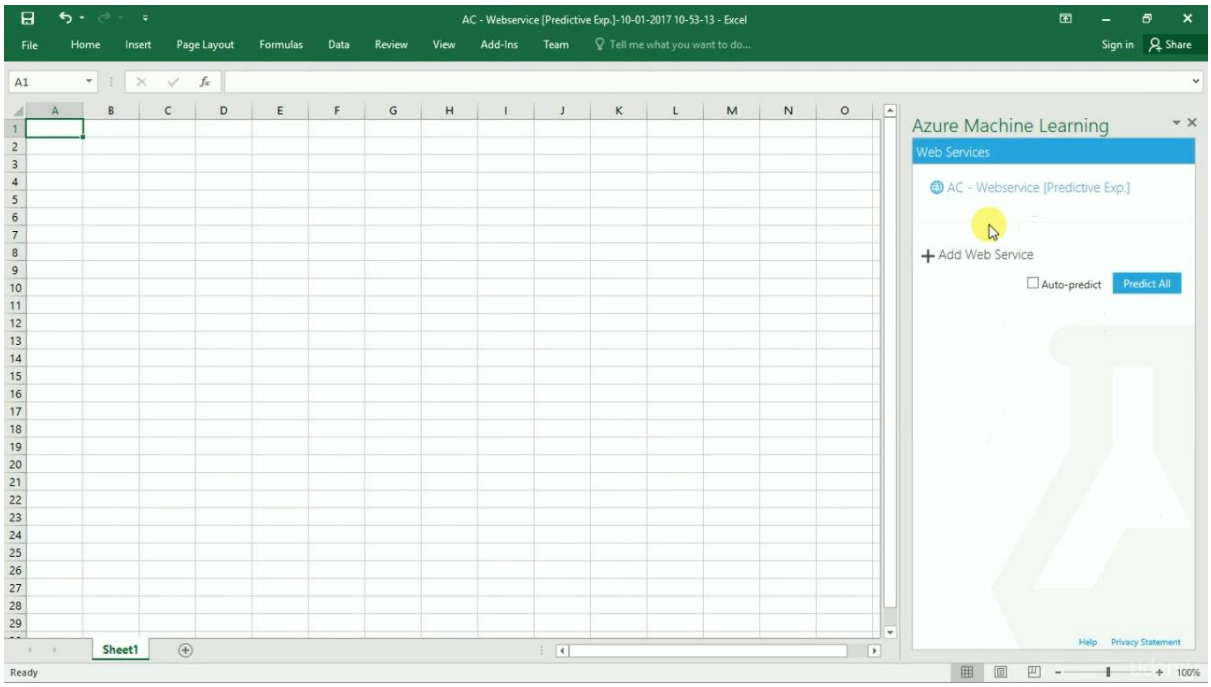
If the same to be needed in excel go to consume tab and click excel



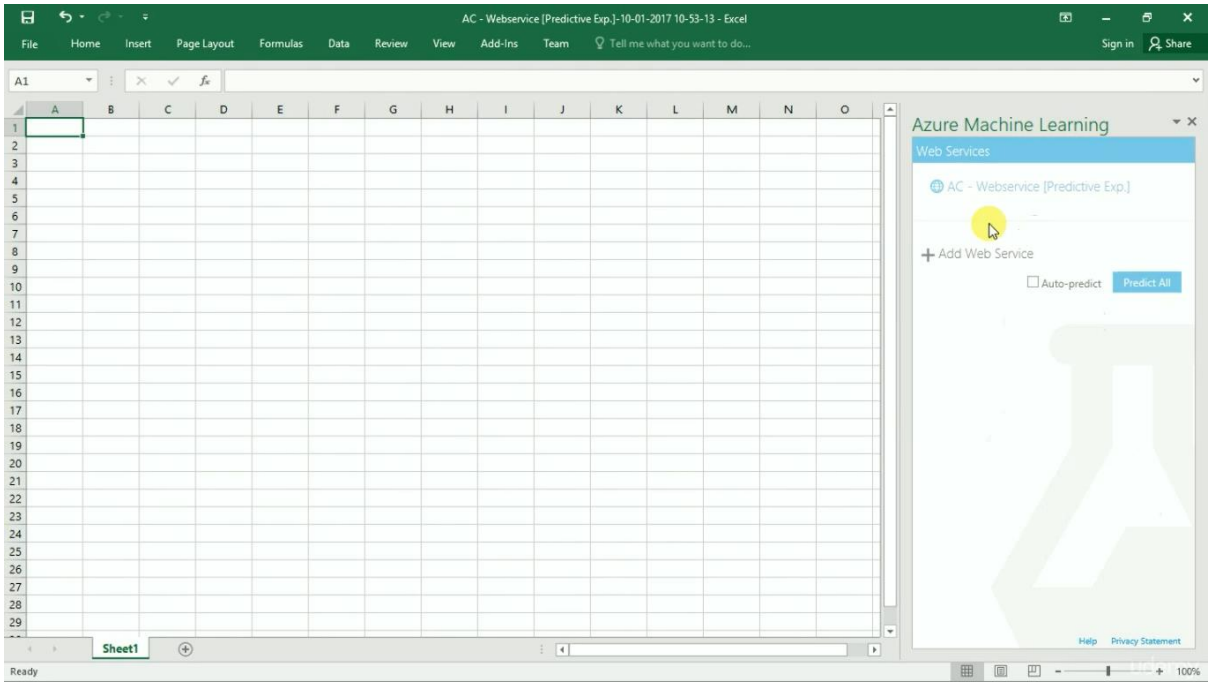
So that we can download the excel template consume the webservice



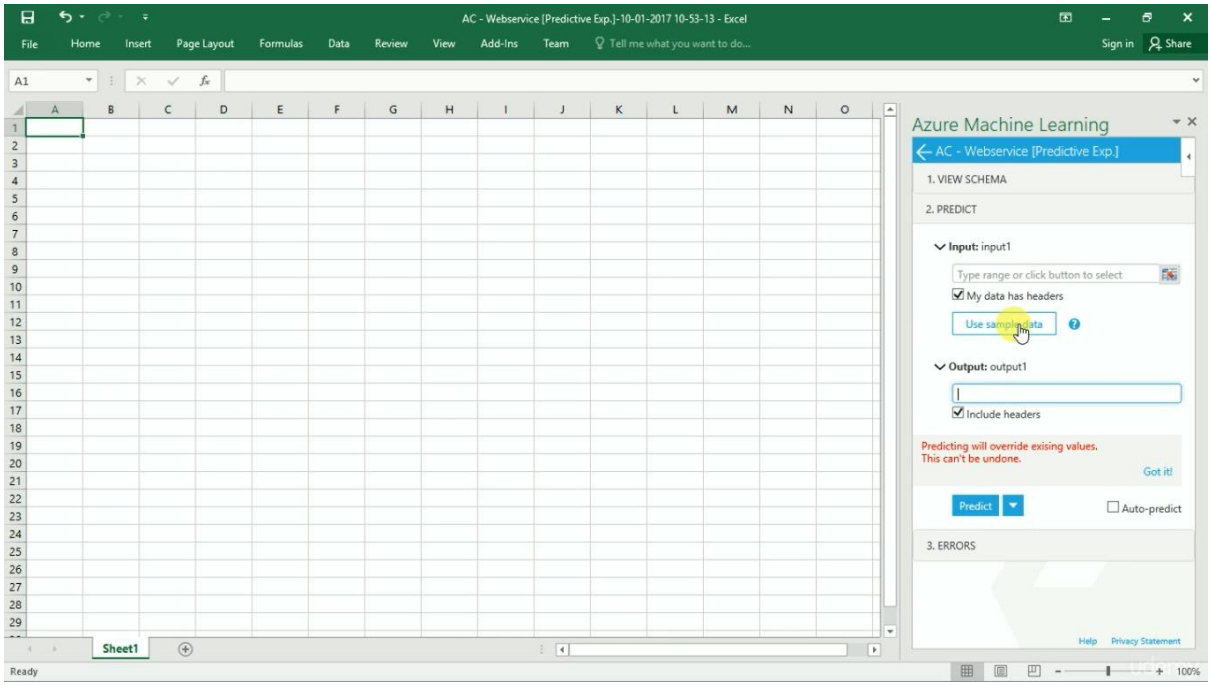
Save and enable editing



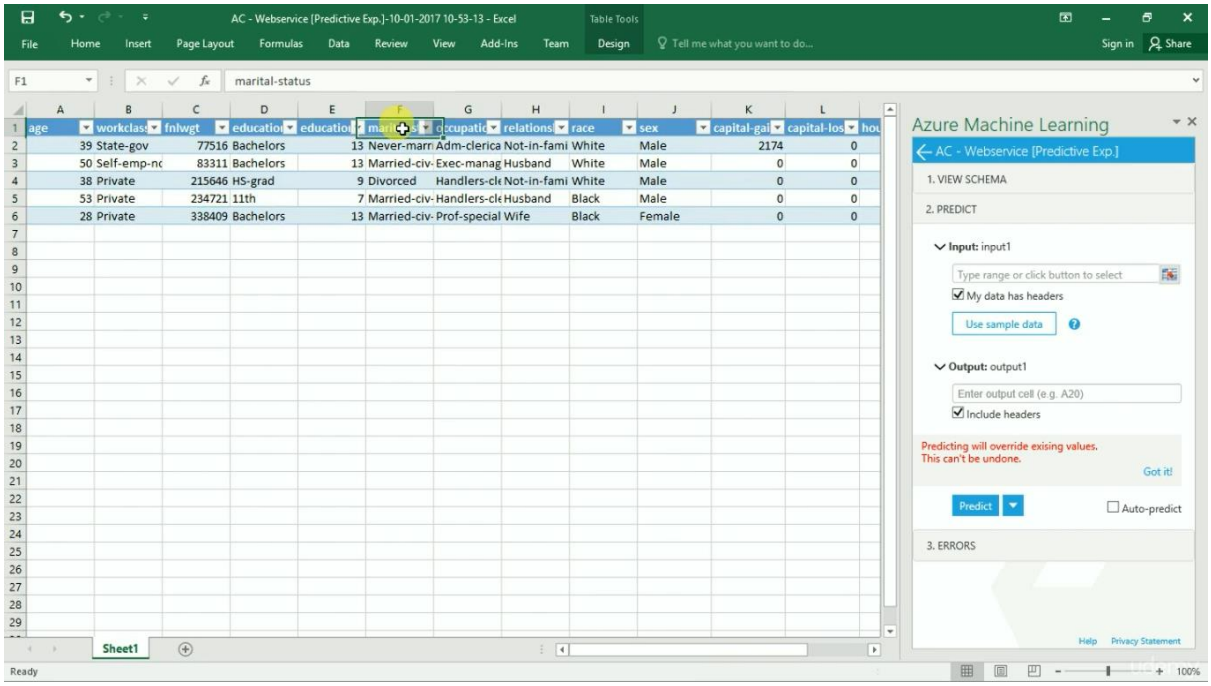
Select our webservice from the dashboard



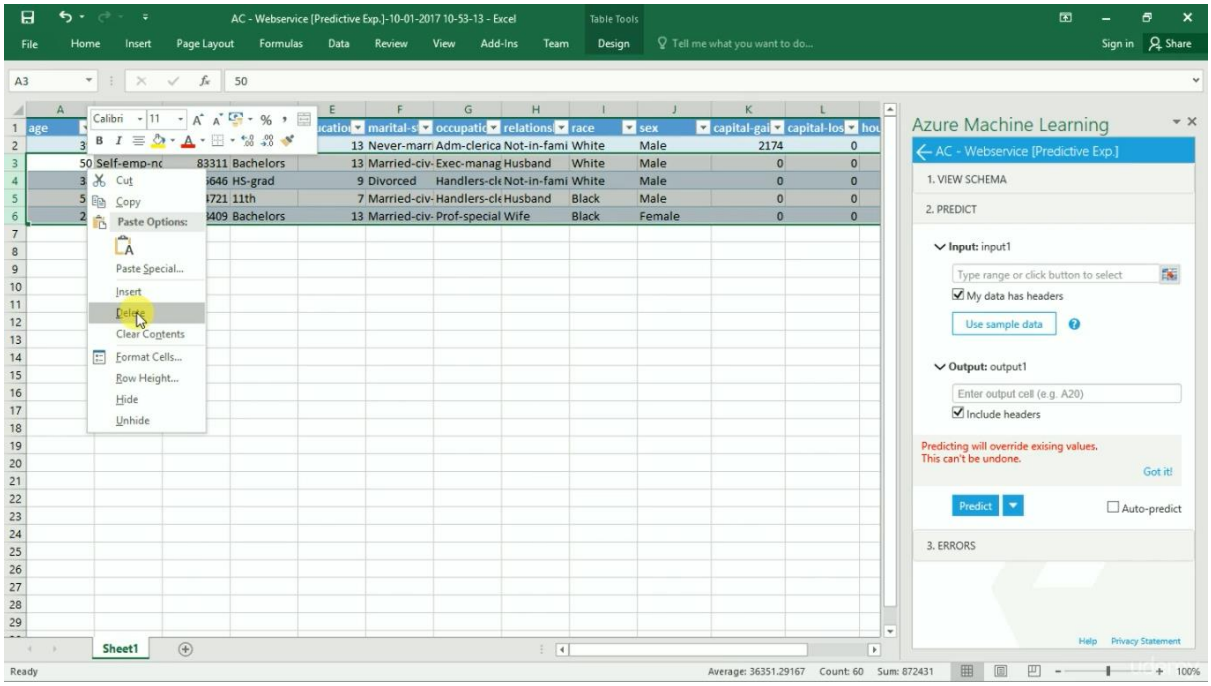
Click sample data



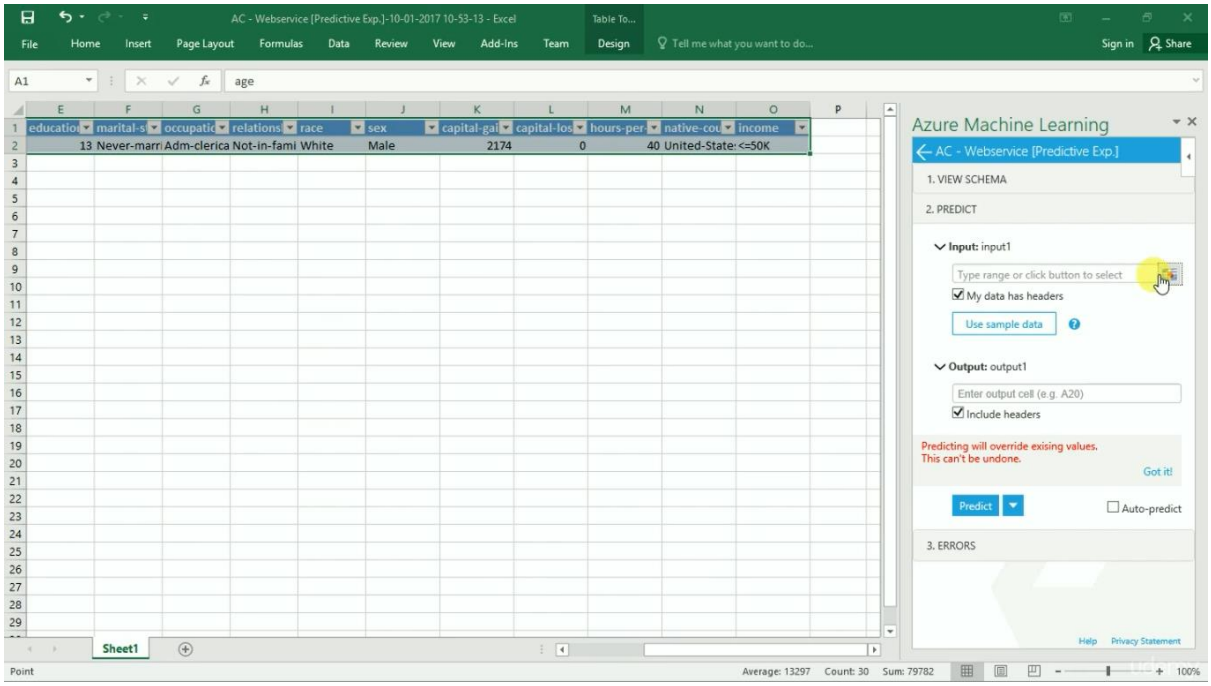
Data generated from dataset



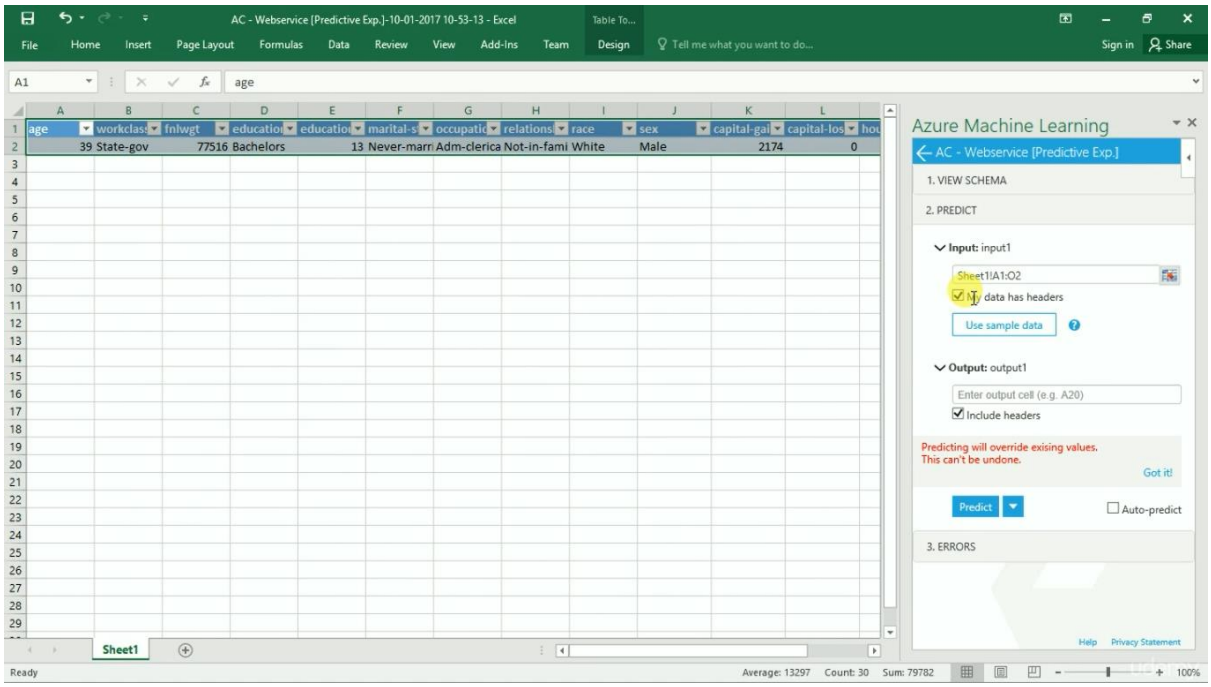
As only one row required in web service delete all data except header and single row



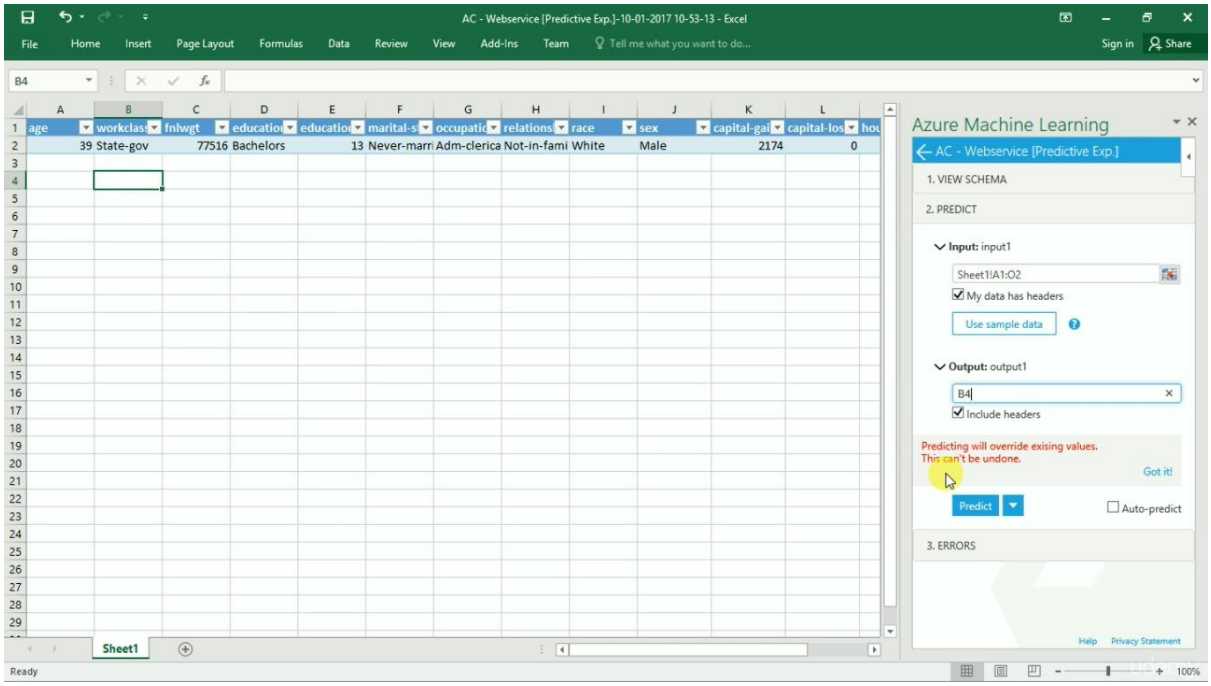
After deleting select the rows and click ok input parameter



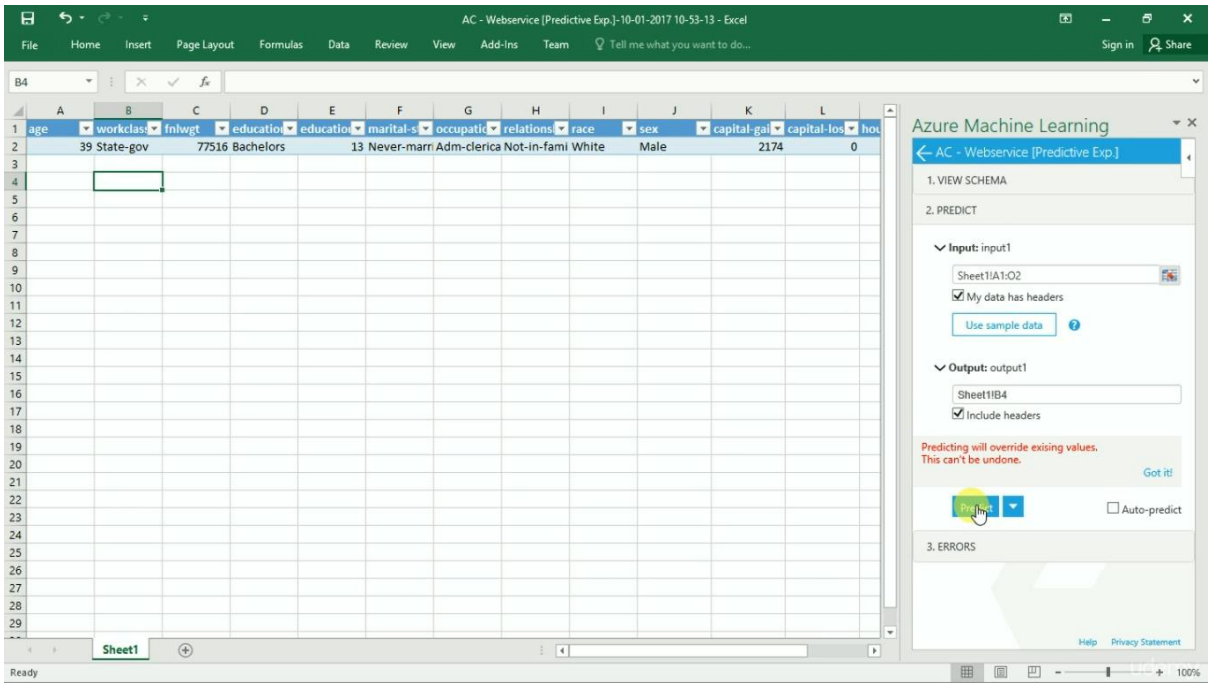
Keep my data header checked since we have header



Select the out area and input the same in output parameter



Click on predict



Can view the output now