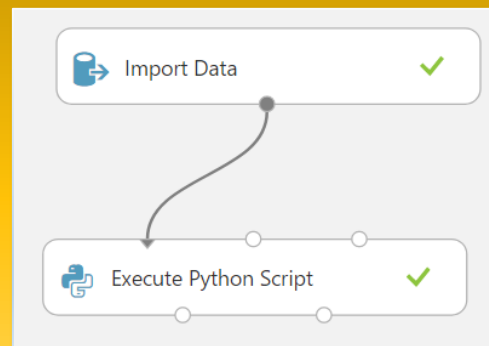


Adding Column name using Python script

ADDING COLUMN NAME USING PYTHON SCRIPT



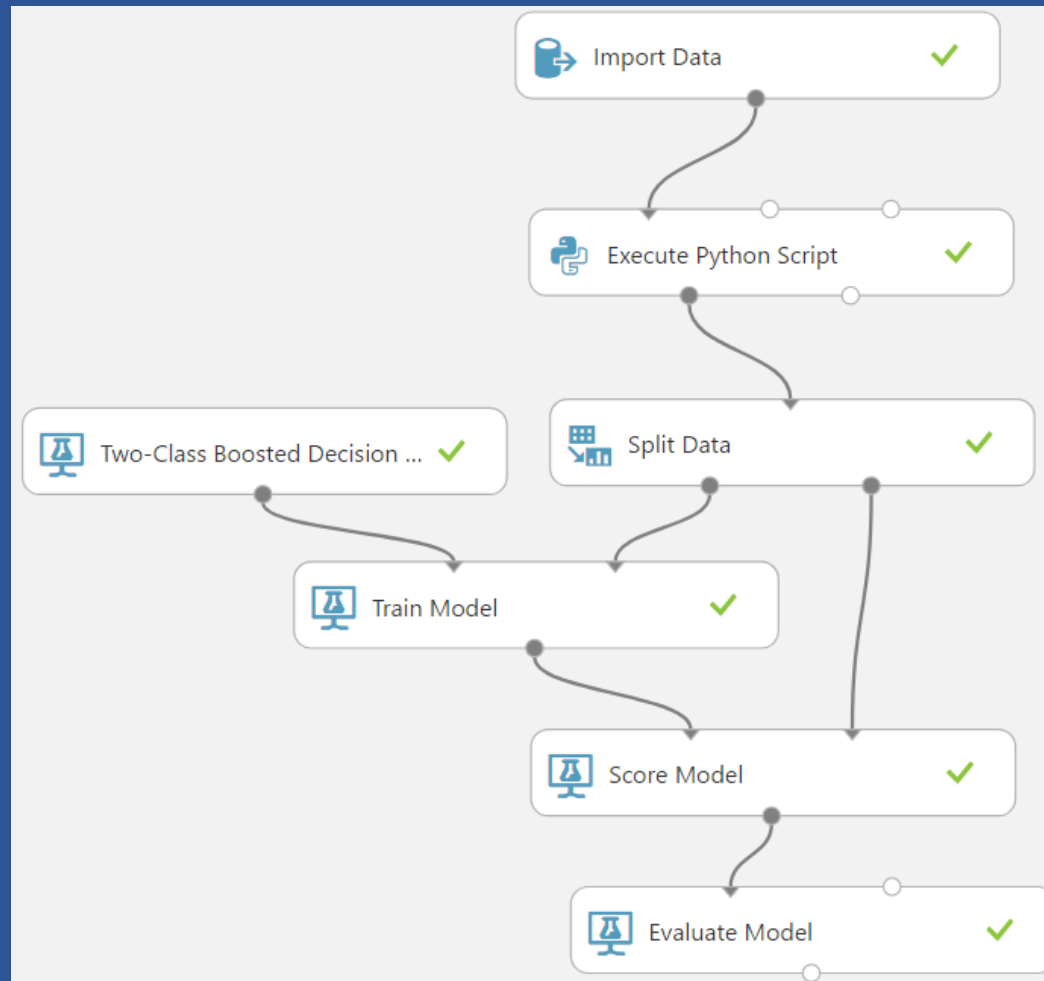
Adding Column name using Python script

In this session:

- Create Adult Col name python experiment
- Insert Import data module to experiment's canvas
- Add python module to canvas
- Enter Python script to the module
- Run and debug script
- Make a copy of Adult Income experiment
- Add Python script to Experiment
- More information

Adding Column name using Python script

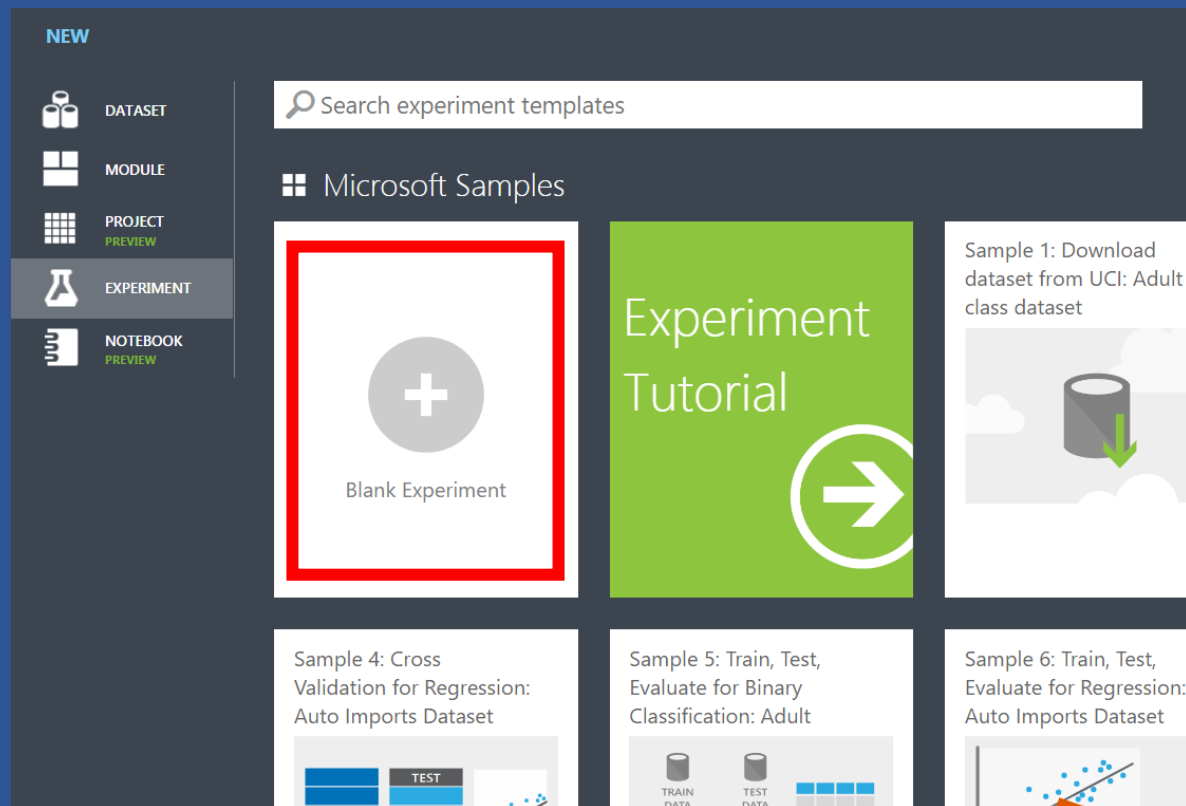
Final result experiment



Adding Column name using Python script

Create Adult Col name python experiment

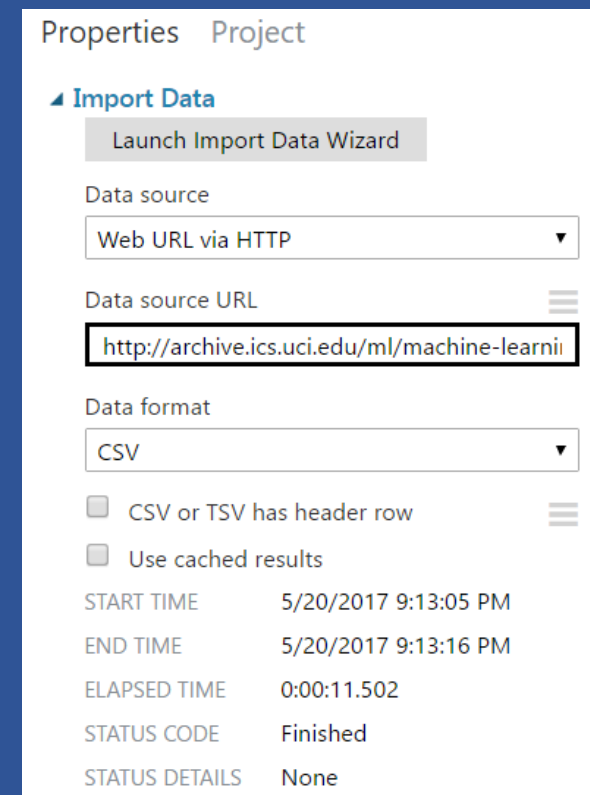
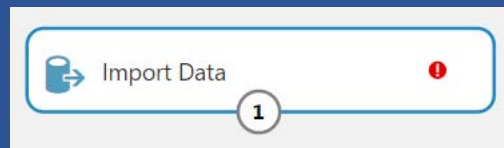
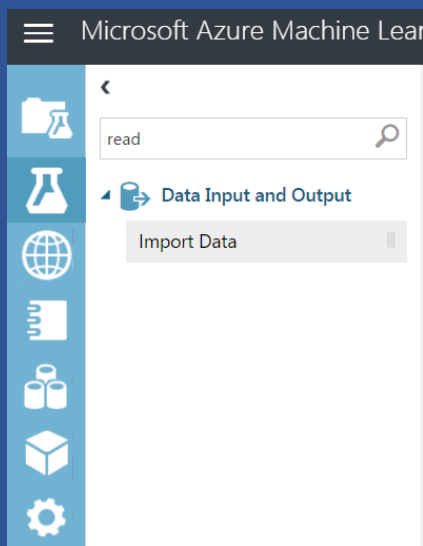
- Create new Blank Experiment
- Name = **Python col name**



Adding Column name using Python script

Insert Import data module to experiment's canvas

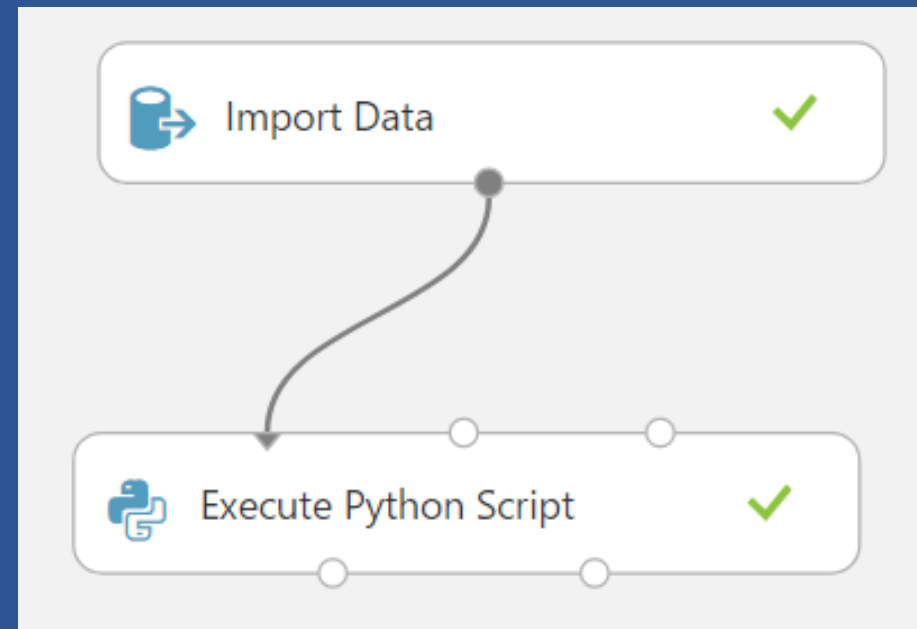
- Click **Data Input and Output**
- Drag & drop **Import Data**
- Data source = <http://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data>



Adding Column name using Python script


Add python module to canvas

- Add **Execute Python Script** to canvas
- Connect **Import Data** module to **Execute Python Script**



Adding Column name using Python script

Enter Python script to the module

- Add **Python script to Execute Python Script** module
- Press 

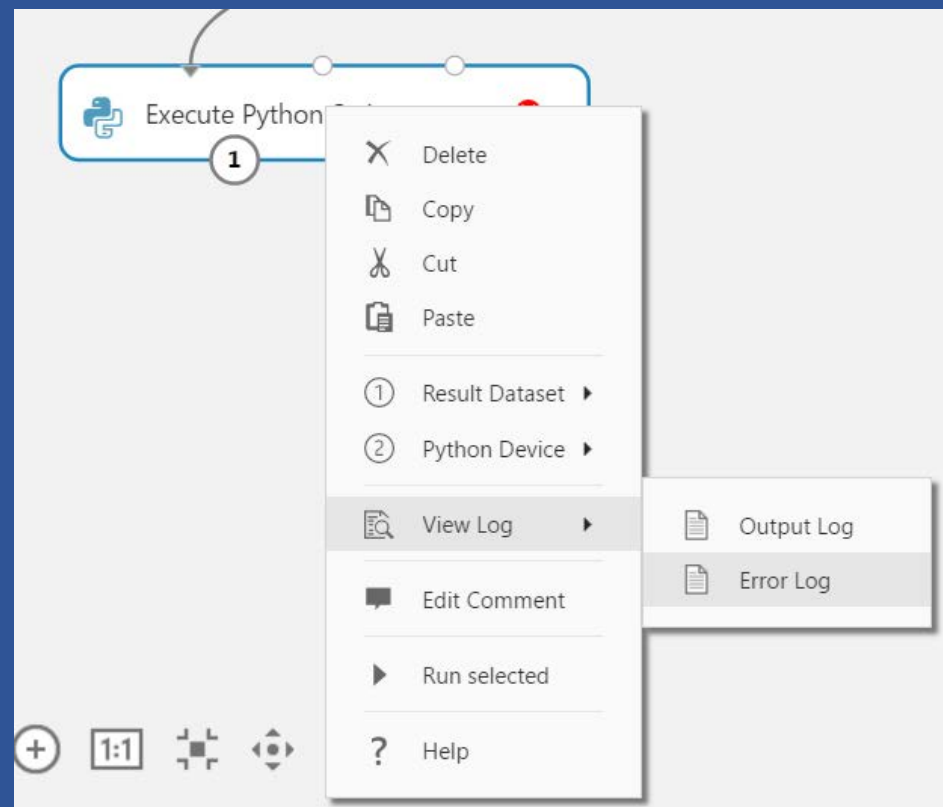
Python script

```
1 #import pandas as pd
2 def azureml_main(dataframe1 = None, dataframe2 = None):
3     dataframe1.columns = [
4         'age',
5         'workclass',
6         'fnlwt',
7         'education',
8         'education-num',
9         'marital-status',
10        'occupation',
11        'relationship',
12        'race',
13        'sex',
14        'capital-gain',
15        'capital-loss',
16        'hours-per-week',
17        'native-country',
18        'income'
19    ]
20    return dataframe1,
```

Adding Column name using Python script

Run and debug script

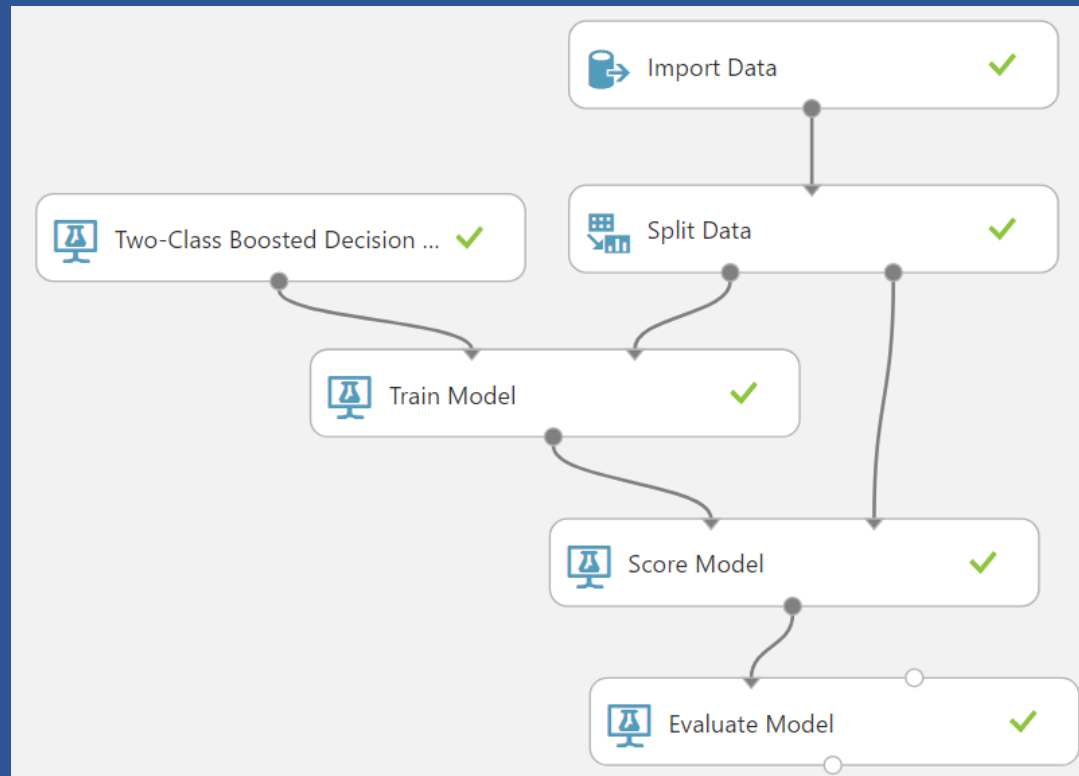
- Run Experiment
- Debugging Python script
 - View **Error Log**
 - Edit script
 - Re-Run Experiment
- Visualize the result
- Save the experiment



Adding Column name using Python script

Make a copy of Adult Income experiment

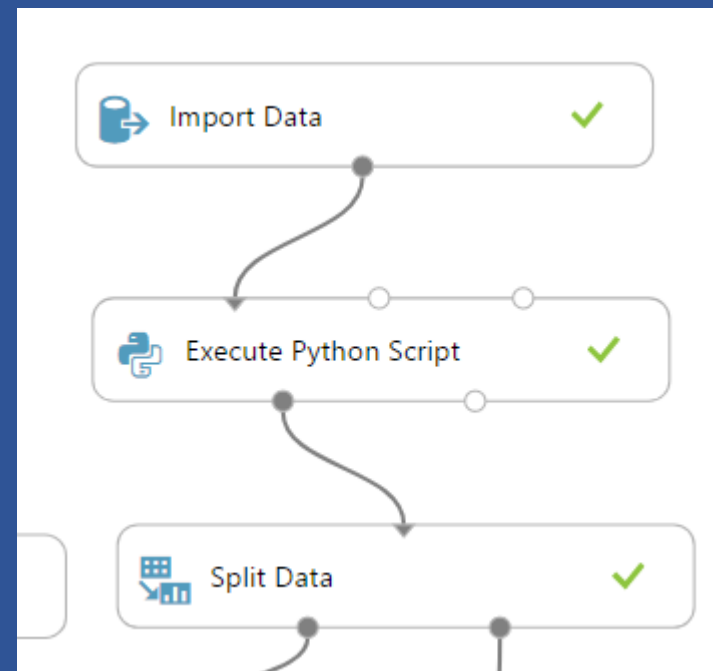
- Open experiment **Adult Income**
- Save as **Adult Income python**



Adding Column name using Python script

Add Python script to Experiment

- Add module **Execute Python Script**
- Remove connection between **Import Data** & **Split Data**
- Connect Import Data to **Execute Python Script** module
- Enter Script
- Run and debug
- Visualize
- Save experiment



Adding Column name using Python script

More information

Execute Python machine learning scripts in Azure Machine Learning Studio

<https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-execute-python-scripts>

This experiment

<https://gallery.cortanaintelligence.com/Experiment/Python-Col-name>