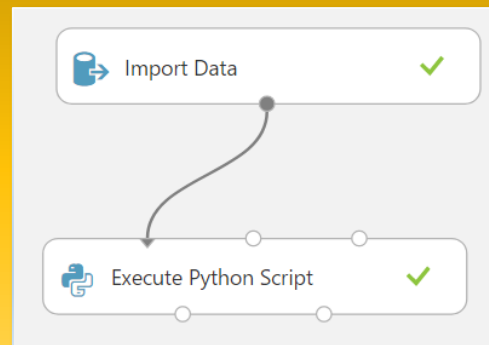


Adding Column name using R script

ADDING COLUMN NAME USING R SCRIPT



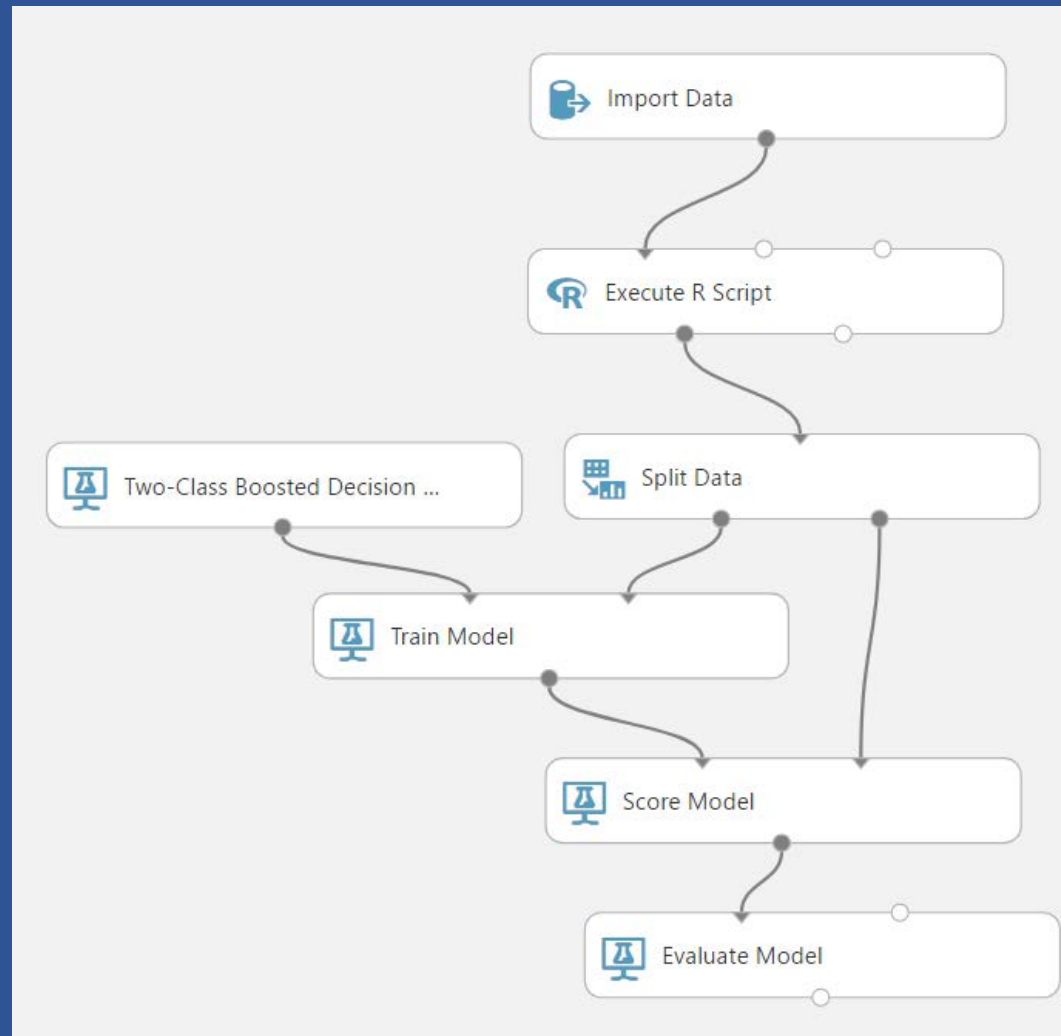
Adding Column name using R script

In this session:

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

Adding Column name using R script

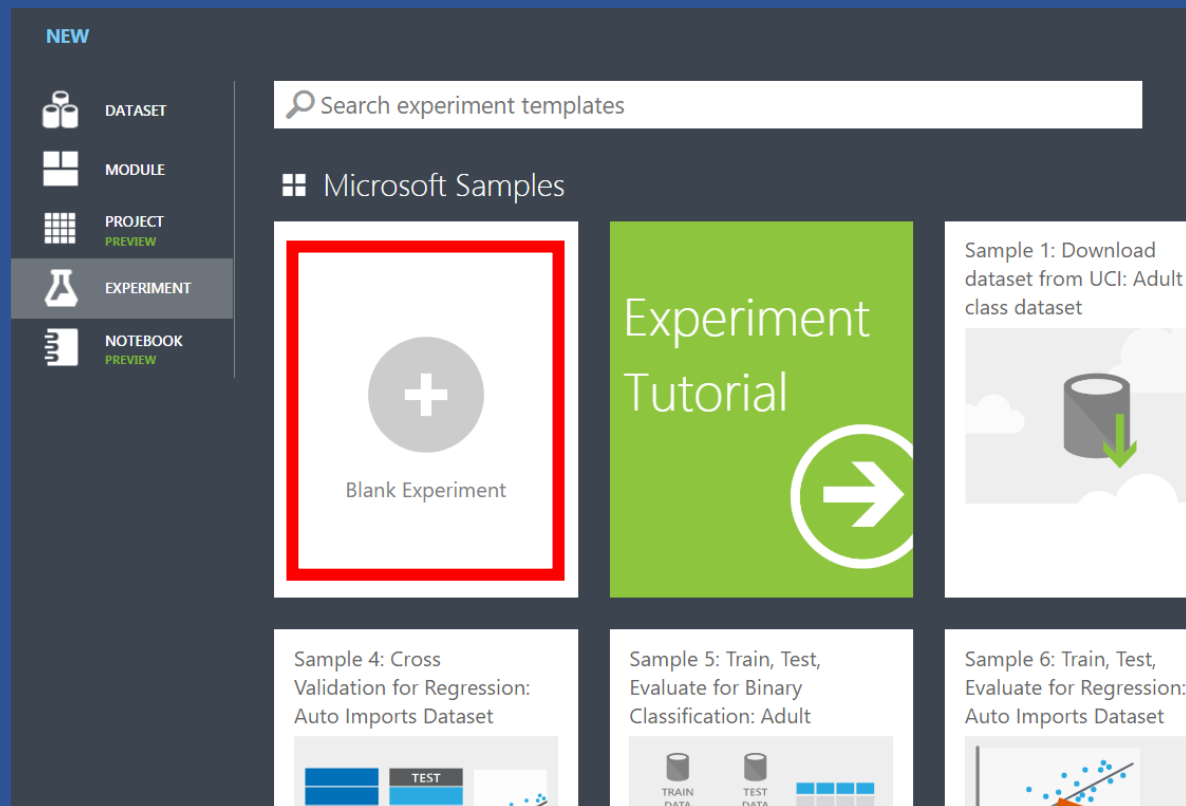
Final result experiment



Adding Column name using R script

Create Adult Col name python experiment

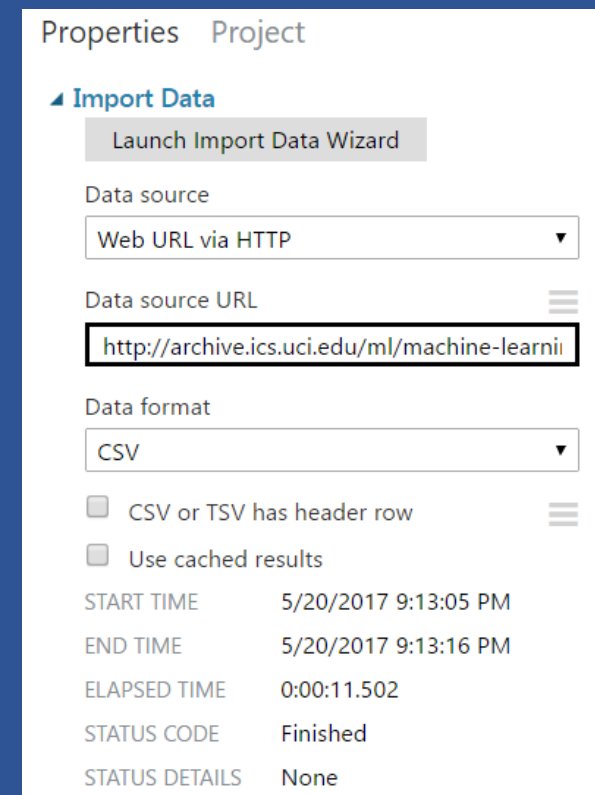
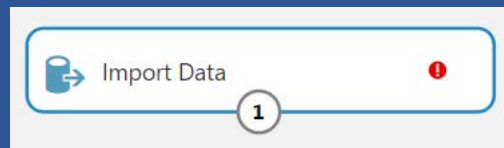
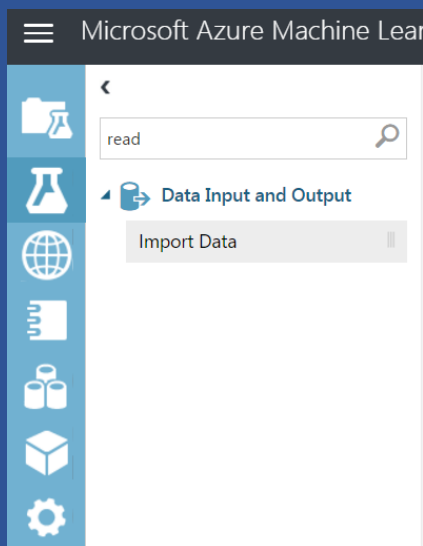
- Create new Blank Experiment
- Name = **Adult Col name python**



Adding Column name using R script

Insert Import data module to experiment's canvas

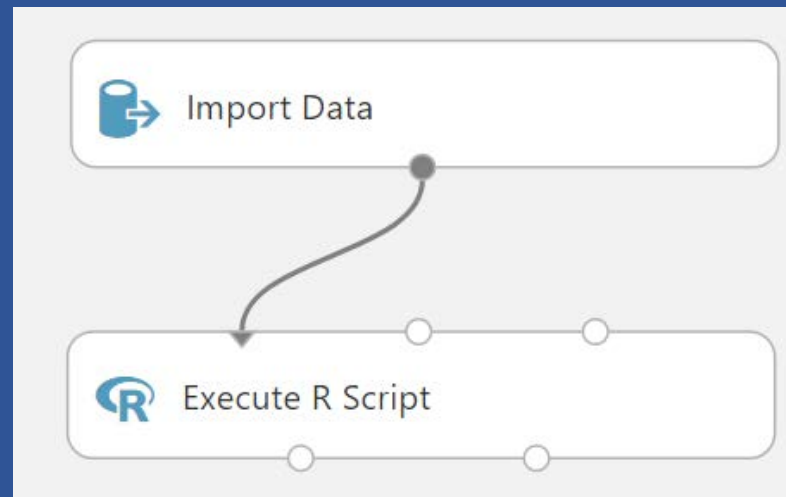
- Click **Data Input and Output**
- Drag & drop **Import Data**
- Data source = <http://archive.ics.uci.edu/ml/machine-learning-databases/adult/adult.data>



Adding Column name using R script

Add R module to canvas

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



Adding Column name using R script

Enter R script code to the module

Add **R script to Code Execute Python Script** module

- Press



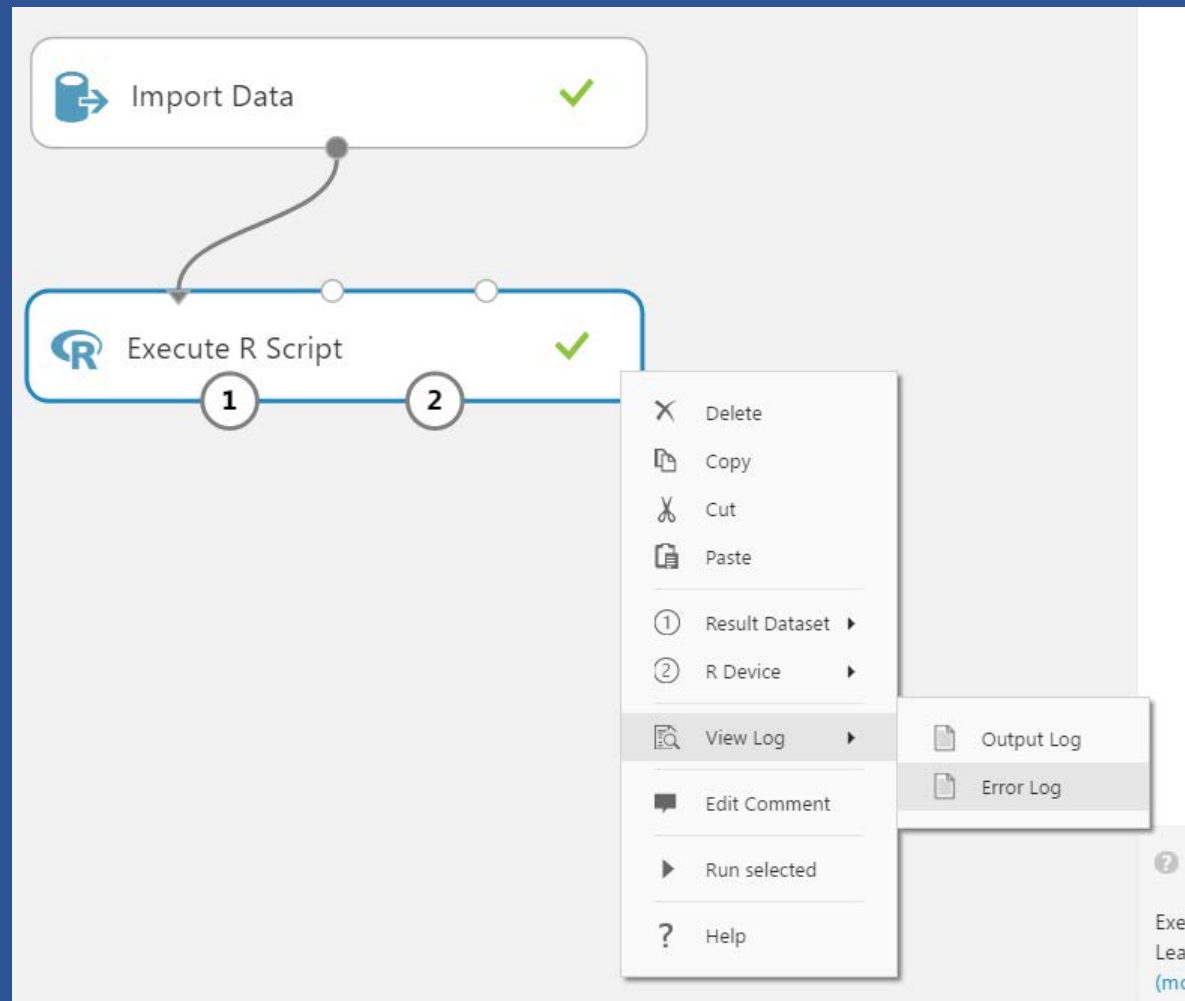
R Script

```
1 # Map 1-based optional input ports to variables
2 dataset1 <- mam1.mapInputPort(1) # class: data.frame
3
4 colnames(dataset1) <- c('age',
5     'workclass',
6     'fnlwgt',
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 # Select data.frame to be sent to the output Dataset port
20 mam1.mapOutputPort("dataset1");
```

Adding Column name using R script

Run and debug script

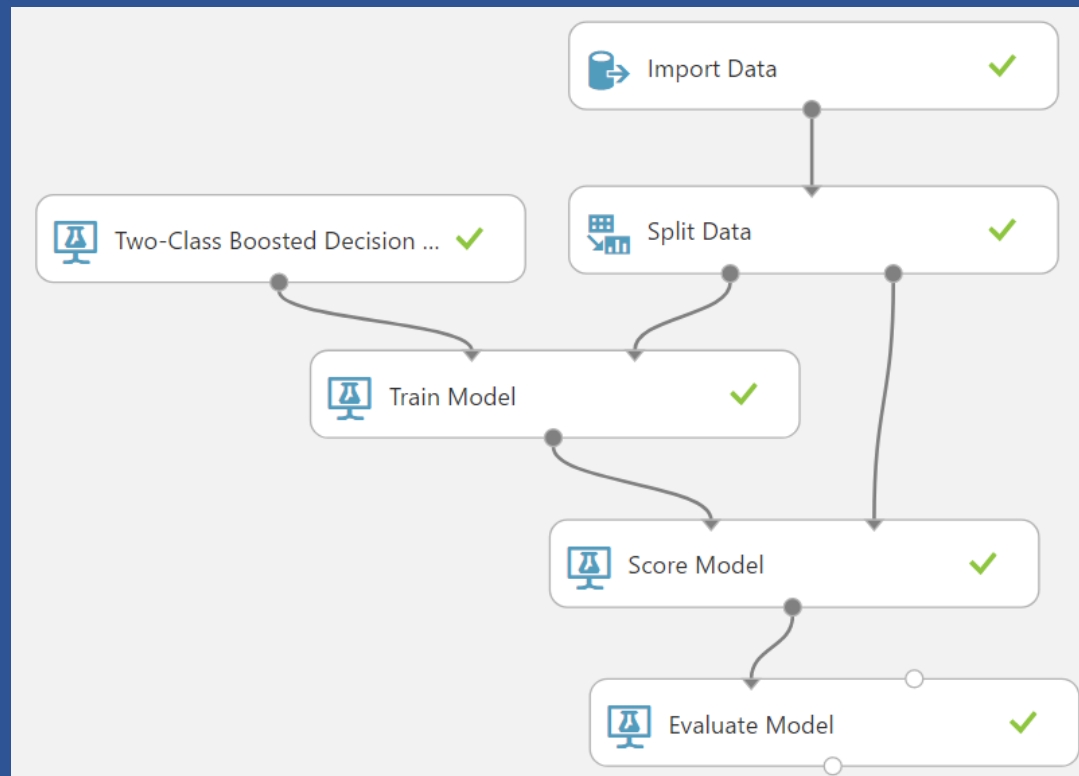
- Run Experiment
- Debugging R script
 - View **Error Log**
 - Edit script
 - Re-Run Experiment
- Visualize the result
- Save the experiment



Adding Column name using R script

Make a copy of Adult Income experiment

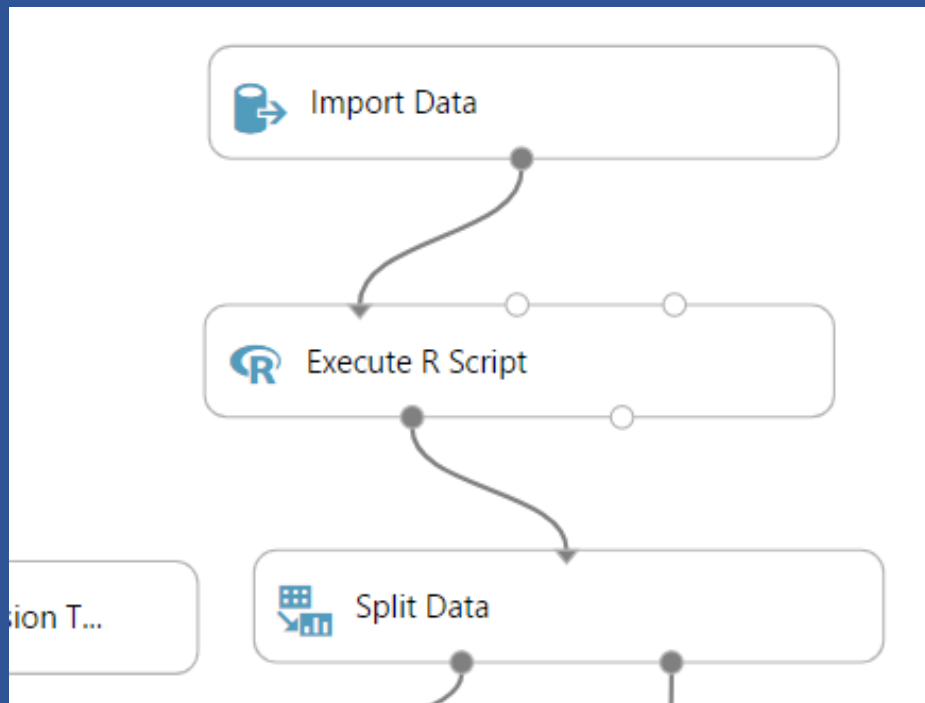
- Open experiment **Adult Income**
- Save as **Adult Income R**



Adding Column name using R script

Add R script to Experiment

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



Adding Column name using R script

More information

Execute R machine learning scripts in Azure Machine Learning Studio

<https://msdn.microsoft.com/en-us/library/azure/dn905952.aspx>