
OpenFlow Documentation

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Contents:

1	openflow	1
1.1	openflow package	1
2	Indices and tables	3
	Python Module Index	5

CHAPTER 1

openflow

1.1 openflow package

1.1.1 Submodules

1.1.2 openflow.datasource module

```
class openflow.datasource.DataSource(preprocess=None)
Bases: object
```

Extracts raw data then restitute it as an arranged DataFrame.

Parameters `preprocess` (`lambda`) – Preprocess DataFrame before transformation

`add_output` (`name, function`)

Adds an output to the DataSource. The order in which the outputs are appended is important if previous outputs are reused.

Parameters

- `name` (`str`) – Name of the output
- `function` (`lambda`) – Function to apply to DataFrame

Examples

```
>>> add_output('double', lambda df: 2 * df['number'])
```

`get_dataframe` (`force_computation=False`)

Preprocesses then transforms the return of run().

Parameters `force_computation` (`bool, optional`) – Defaults to False. If set to True, forces the computation of DataFrame at each call.

Returns Preprocessed and transformed DataFrame.

Return type pandas.DataFrame

set_data (*data*)

Set data at runtime. Will be passed to run() function.

Parameters **data** (*obj*) – Data to be passed to run().

transform (*df*)

Transforms a DataFrame in place. Computes all outputs of the DataFrame.

Parameters **df** (*pandas.DataFrame*) – DataFrame to transform.

1.1.3 openflow.openflow module

class openflow.openflow.**OpenFlow** (*model, defaults=None*)

Bases: object

add_input (*name, outputs*)

Adds an input.

Parameters

- **name** (*str*) – The name of the input.
- **columns** (*list (str)*) – The outputs to extract from the DataSource.

benchmark (*ds, limit=None, x_output='x', y_output='y'*)

get_input (*name, ds*)

Retrieves the content of an input given a DataSource. The input acts like a filter over the outputs of the DataSource.

Parameters

- **name** (*str*) – The name of the input.
- **ds** (*openflow.DataSource*) – The DataSource that will feed the data.

Returns The content of the input.

Return type pandas.DataFrame

train (*ds, limit=None, x_output='x', y_output='y'*)

1.1.4 Module contents

CHAPTER 2

Indices and tables

- genindex
- modindex
- search

Python Module Index

0

[openflow](#), 2
[openflow.datasource](#), 1
[openflow.openflow](#), 2

Index

A

add_input() (openflow.openflow.OpenFlow method), [2](#)
add_output() (openflow.datasource.DataSource method),
[1](#)

B

benchmark() (openflow.openflow.OpenFlow method), [2](#)

D

DataSource (class in openflow.datasource), [1](#)

G

get_dataframe() (openflow.datasource.DataSource
method), [1](#)
get_input() (openflow.openflow.OpenFlow method), [2](#)

O

OpenFlow (class in openflow.openflow), [2](#)
openflow (module), [2](#)
openflow.datasource (module), [1](#)
openflow.openflow (module), [2](#)

S

set_data() (openflow.datasource.DataSource method), [2](#)

T

train() (openflow.openflow.OpenFlow method), [2](#)
transform() (openflow.datasource.DataSource method), [2](#)