pandas.DataFrame.agg

DataFrame.agg(self, func, axis=0, *args, **kwargs)

[source]

Aggregate using one or more operations over the specified axis.

New in version 0.20.0.

func : function, str, list or dict

Function to use for aggregating the data. If a function, must either work when passed a DataFrame or when passed to DataFrame.apply.

Accepted combinations are:

- function
- string function name
- list of functions and/or function names, e.g. [np.sum, 'mean']
- dict of axis labels -> functions, function names or list of such.

Parameters:

axis: {0 or 'index', 1 or 'columns'}, default 0

If 0 or 'index': apply function to each column. If 1 or 'columns': apply function to each row.

*args

Positional arguments to pass to func.

**kwargs

Keyword arguments to pass to func.

scalar, Series or DataFrame

The return can be:

- scalar : when Series.agg is called with single function
- Returns:
- Series : when DataFrame.agg is called with a single function
- DataFrame : when DataFrame.agg is called with several functions

Return scalar, Series or DataFrame.

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The aggregation operations are always performed over an axis, either the index (default) or the column axis. This behavior is different from numpy aggregation functions (mean, median, prod, sum, std, var), where the default is to compute the aggregation of the flattened array, e.g., numpy.mean(arr_2d) as opposed to numpy.mean(arr_2d, axis=0).

agg is an alias for aggregate. Use the alias.

See also:

DataFrame.apply

Perform any type of operations.

DataFrame.transform

Perform transformation type operations.

core.groupby.GroupBy

Perform operations over groups.

core.resample.Resampler

Perform operations over resampled bins.

core.window.Rolling

Perform operations over rolling window.

core.window.Expanding

Perform operations over expanding window.

core.window.EWM

Perform operation over exponential weighted window.

Notes

agg is an alias for aggregate. Use the alias.

A passed user-defined-function will be passed a Series for evaluation.

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Examples

Aggregate these functions over the rows.

```
>>> df.agg(['sum', 'min'])

A B C

sum 12.0 15.0 18.0

min 1.0 2.0 3.0
```

Different aggregations per column.

```
>>> df.agg({'A' : ['sum', 'min'], 'B' : ['min', 'max']})

A B

max NaN 8.0

min 1.0 2.0

sum 12.0 NaN
```

Aggregate over the columns.

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