
Air Quality Toolkit Documentation

Release 1

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STITCHER

`Stitcher.Stitcher(filepath_list, filename, scale, headers_list, output_filename)`

This function sums multiple dataframes together and outputs a csv of the result.

Parameters

- **filepath_list** (*list[str]*) – This should be a list of filepaths to associated filename list.
- **filename** (*list[str]*) – This should be a list of filenames to associated filepath (filepath_list) list.
- **scale** (*list[float]*) – This should be a list of scalars to scale associated filename dataframe by.
- **headers_list** (*list[int]*) – This should be a list of numbers to exclude number of columns from dataframes.
- **output_filename** (*str.*) – Output filename.

CSV FORMATTER

`CSVFormatter.csvformatter(filename, olm_state, output_filename)`

This function formats dataset outputs from air quality modelling software to CSV format.

Parameters

- **filename** (*str.*) – This should be a string of the filename to convert to CSV.
- **olm_state** (*bool.*) – This should be a boolean value specifying if the file is OLM format (x and y information header).
- **output_filename** (*str.*) – Output filename.

FACTORIZER

`Factorizer.calcrow(row)`

This function is used for multiplying entire pandas dataframe single row by scalar value located in the last column of the dataframe.

Parameters `row (float.)` – This should be the slice from the pandas dataframe.

Returns `pd.Series` – The row multiplied by the scalar in the last column of the row

`Factorizer.factorizer(dataset_filename, factor_filename, output_filename)`

This function multiplies air quality datasets with vectors given.

Parameters

- **dataset_filename (str.)** – This should be a string of the filename containing the dataset.
- **factor_filename (str.)** – This should be a string of the filename containing the vector dataset to multiply with.
- **output_filename (str.)** – Output filename.

PYTHON MODULE INDEX

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