tf.keras.utils.HDF5Matrix

Class **HDF5Matrix**

Defined in `tensorflow/python/keras/_impl/keras/utils/io_utils.py`.

Representation of HDF5 dataset to be used instead of a Numpy array.

Example:

```
    x_data = HDF5Matrix('input/file.hdf5', 'data')
    model.predict(x_data)
```

Providing `start` and `end` allows use of a slice of the dataset.

Optionally, a normalizer function (or lambda) can be given. This will be called on every slice of data retrieved.

Arguments:

- `datapath`: string, path to a HDF5 file
- `dataset`: string, name of the HDF5 dataset in the file specified in datapath
- `start`: int, start of desired slice of the specified dataset
- `end`: int, end of desired slice of the specified dataset
- `normalizer`: function to be called on data when retrieved

Returns:

An array-like HDF5 dataset.

Properties

`dtype`

Gets the datatype of the dataset.

Returns:

A numpy dtype string.

ndim

Gets the number of dimensions (rank) of the dataset.

Returns:

An integer denoting the number of dimensions (rank) of the dataset.

shape

Gets a numpy-style shape tuple giving the dataset dimensions.

Returns:

A numpy-style shape tuple.

size

Gets the total dataset size (number of elements).

Returns:

An integer denoting the number of elements in the dataset.

Methods

__init__

```
__init__(
    datapath,
    dataset,
    start=0,
    end=None,
    normalizer=None
)
```

__getitem__

```
__getitem__(key)
```

__len__

```
__len__()
```

Class Members

refs

Last updated November 2, 2017.