

tf.keras.utils.HDF5Matrix

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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

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