tf.contrib.timeseries.CSVReader

Class **CSVReader**

Defined in `tensorflow/contrib/timeseries/python/timeseries/input_pipeline.py` .

Reads from a collection of CSV-formatted files.

Methods

`__init__`

```
__init__(
    filenames,
    column_names=(feature_keys.TrainEvalFeatures.TIMES, feature_keys.TrainEvalFeatures.VALUES),
    column_dtypes=None,
    skip_header_lines=None,
    read_num_records_hint=4096
)
```

CSV-parsing reader for a `TimeSeriesInputFn` .

Args:

- `filenames` : A filename or list of filenames to read the time series from. Each line must have columns corresponding to `column_names` .
- `column_names` : A list indicating names for each feature. `TrainEvalFeatures.TIMES` and `TrainEvalFeatures.VALUES` are required; `VALUES` may be repeated to indicate a multivariate series.
- `column_dtypes` : If provided, must be a list with the same length as `column_names` , indicating dtypes for each column. Defaults to `tf.int64` for `TrainEvalFeatures.TIMES` and `tf.float32` for everything else.
- `skip_header_lines` : Passed on to `tf.TextLineReader` ; skips this number of lines at the beginning of each file.
- `read_num_records_hint` : When not reading a full dataset, indicates the number of records to parse/transfer in a single chunk (for efficiency). The actual number transferred at one time may be more or less.

Raises:

- `ValueError` : If required column names are not specified, or if lengths do not match.

check_dataset_size

```
check_dataset_size(minimum_dataset_size)
```

When possible, raises an error if the dataset is too small.

This method allows TimeSeriesReaders to raise informative error messages if the user has selected a window size in their TimeSeriesInputFn which is larger than the dataset size. However, many TimeSeriesReaders will not have access to a dataset size, in which case they do not need to override this method.

Args:

- `minimum_dataset_size` : The minimum number of records which should be contained in the dataset. Readers should attempt to raise an error when possible if an epoch of data contains fewer records.

read

```
read()
```

Reads a chunk of data from the `tf.ReaderBase` for later re-chunking.

read_full

```
read_full()
```

Reads a full epoch of data into memory.

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