twinlab.Emulator.benchmark

Emulator.benchmark(*params=<twinlab.params.BenchmarkParams object>, verbose=False*)

Benchmark the performance of a trained emulator with a calibration curve.

A test dataset must have been defined in order for this to produce a meaningful result. This means that `train_test_ratio` must be less than 1 when training the emulator. The calibration curve can be plotted to show how well the training data fits to the emulator, and is calculated differently depending on the *params* chosen. The returned dataframe contains 100 rows for each output column of the emulator. These can be plotted to ascertain the performance of the emulator.

Parameters:

- **params** (*BenchmarkParams, optional*) – A parameter-configuration object that contains optional parameters for benchmarking an emulator.
- **verbose** (*bool, optional*) – Display detailed information about the operation while running.

Returns:

Either a `pandas.DataFrame` containing the calibration curve for an emulator, or `None` if there is no test data.

Return type:

pandas.DataFrame, None

Example

```
emulator = tl.Emulator("quickstart")
emulator.benchmark()
```

```
      y
0   0.0
1   0.0
2   0.0
3   0.0
4   0.0
..  ...
95  1.0
```

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```
98  1.0
99  1.0
```

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