

QuantileCV

mod quantile_cv

Definition for RegressionCV.

class QuantileCV

Bases: [RegressionCV](#)

Defines an auto regression tree, based on the bayesian optimization base class.

Source code in `src/tree_machine/quantile_cv.py`

```
16 class QuantileCV(RegressionCV):
17     """
18     Defines an auto regression tree, based on the bayesian optimization base
19     class.
20     """
21
22     @validate_call(config={"arbitrary_types_allowed": True})
23     def __init__(
24         self,
25         alpha: NonNegativeFloat,
26         cv: BaseCrossValidator,
27         n_trials: NonNegativeInt,
28         timeout: NonNegativeInt,
29         config: RegressionCVConfig,
30     ) -> None:
31         """
32         Constructor for RegressionCV.
33
34         Args:
35             metric: Loss metric to use as base for the estimation process.
36             cv: Splitter object to use when estimating the model.
37             n_trials: Number of optimization trials to use when finding a
38             model.
39             timeout: Timeout in seconds to stop the optimization.
40             config: Configuration to use when fitting the model.
41         """
42         super().__init__("quantile", cv, n_trials, timeout, config)
43         self.alpha_ = alpha
44
45     @property
46     def scorer(self) -> tp.Callable[... , float]:
47         """
48         Returns correct scorer to use when scoring with RegressionCV.
49         """
50         return make_scorer(
51             update_wrapper(
52                 partial(
53                     regression_metrics["quantile"],
54                     alpha=self.alpha_,
55                 ),
56                 regression_metrics["quantile"],
57             ),
58             greater_is_better=False,
59         )
```

attr **scorer** property

scorer

Returns correct scorer to use when scoring with RegressionCV.

meth `__init__`

```
__init__(alpha, cv, n_trials, timeout, config)
```

Constructor for RegressionCV.

Parameters:

Name	Type	Description	Default
<code>metric</code>		Loss metric to use as base for the estimation process.	<i>required</i>
<code>cv</code>	<code>BaseCrossValidator</code>	Splitter object to use when estimating the model.	<i>required</i>
<code>n_trials</code>	<code>NonNegativeInt</code>	Number of optimization trials to use when finding a model.	<i>required</i>
<code>timeout</code>	<code>NonNegativeInt</code>	Timeout in seconds to stop the optimization.	<i>required</i>
<code>config</code>	<code>RegressionCVConfig</code>	Configuration to use when fitting the model.	<i>required</i>

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