

tf.keras.wrappers.scikit_learn.KerasRegressor

Contents

Class KerasRegressor

Methods

`__init__`

`check_params`

Class KerasRegressor

Defined in [tensorflow/python/keras/_impl/keras/wrappers/scikit_learn.py](#).

Implementation of the scikit-learn regressor API for Keras.

Methods

`__init__`

```
__init__(  
    build_fn=None,  
    **sk_params  
)
```

`check_params`

```
check_params(params)
```

Checks for user typos in "params".

Arguments:

- `params`: dictionary; the parameters to be checked

Raises:

- `ValueError`: if any member of `params` is not a valid argument.

`filter_sk_params`

```
filter_sk_params(  
    fn,  
    override=None  
)
```

Filters `sk_params` and return those in `fn`'s arguments.

Arguments:

- `fn` : arbitrary function
- `override` : dictionary, values to override `sk_params`

Returns:

- `res` : dictionary dictionary containing variables in both `sk_params` and `fn`'s arguments.

fit

```
fit(  
    x,  
    y,  
    **kwargs  
)
```

Constructs a new model with `build_fn` & fit the model to `(x, y)`.

Arguments:

- `x` : array-like, shape `(n_samples, n_features)` Training samples where `n_samples` is the number of samples and `n_features` is the number of features.
- `y` : array-like, shape `(n_samples,)` or `(n_samples, n_outputs)` True labels for X.
- `**kwargs` : dictionary arguments Legal arguments are the arguments of `Sequential.fit`

Returns:

- `history` : object details about the training history at each epoch.

get_params

```
get_params(**params)
```

Gets parameters for this estimator.

Arguments:

- `**params` : ignored (exists for API compatibility).

Returns:

Dictionary of parameter names mapped to their values.

predict

```
predict(  
    x,  
    **kwargs  
)
```

Returns predictions for the given test data.

Arguments:

- **x**: array-like, shape **(n_samples, n_features)** Test samples where n_samples is the number of samples and n_features is the number of features.
- ****kwargs**: dictionary arguments Legal arguments are the arguments of **Sequential.predict**.

Returns:

- **preds**: array-like, shape **(n_samples,)** Predictions.

score

```
score(  
    x,  
    y,  
    **kwargs  
)
```

Returns the mean loss on the given test data and labels.

Arguments:

- **x**: array-like, shape **(n_samples, n_features)** Test samples where n_samples is the number of samples and n_features is the number of features.
- **y**: array-like, shape **(n_samples,)** True labels for X.
- ****kwargs**: dictionary arguments Legal arguments are the arguments of **Sequential.evaluate**.

Returns:

- **score**: float Mean accuracy of predictions on X wrt. y.

set_params

```
set_params(**params)
```

Sets the parameters of this estimator.

Arguments:

- ****params**: Dictionary of parameter names mapped to their values.

Returns:

self

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Last updated November 2, 2017.

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