Module: tf.keras.losses

TensorFlow 1 version (/versions/r1.15/api_docs/python/tf/keras/losses)

Built-in loss functions.

View aliases

Main aliases

`tf.losses` (https://www.tensorflow.org/api_docs/python/tf/keras/losses)

Classes

`class BinaryCrossentropy` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/BinaryCrossentropy): Computes the cross-entropy loss between true labels and predicted labels.

`class CategoricalCrossentropy` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/CategoricalCrossentropy): Computes the crossentropy loss between the labels and predictions.

`class CategoricalHinge` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/CategoricalHinge): Computes the categorical hinge loss between `y_true` and `y_pred`.

`class CosineSimilarity` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/CosineSimilarity): Computes the cosine similarity between labels and predictions.

`class Hinge` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/Hinge): Computes the hinge loss between `y_true` and `y_pred`.

`class Huber` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/Huber): Computes the Huber loss between `y_true` and `y_pred`.

`class KLDivergence` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/KLDivergence): Computes Kullback-Leibler divergence loss between `y_true` and `y_pred`.

`class LogCosh` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/LogCosh): Computes the logarithm of the hyperbolic cosine of the prediction error.

`class Loss` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/Loss): Loss base class.

`class MeanAbsoluteError` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MeanAbsoluteError): Computes the mean of absolute difference between labels and predictions.

`class MeanAbsolutePercentageError` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MeanAbsolutePercentageError): Computes the mean absolute percentage error between `y_true` and `y_pred`.

`class MeanSquaredError` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MeanSquaredError): Computes the mean of squares of errors between labels and predictions.

`class MeanSquaredLogarithmicError` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MeanSquaredLogarithmicError): Computes the mean squared logarithmic error between `y_true` and `y_pred`.

`class Poisson` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/Poisson): Computes the Poisson loss between `y_true` and `y_pred`.

`class Reduction` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/Reduction): Types of loss reduction.

`class SparseCategoricalCrossentropy` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/SparseCategoricalCrossentropy): Computes the crossentropy loss between the labels and predictions.

`class SquaredHinge` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/SquaredHinge): Computes the squared hinge loss between `y_true` and `y_pred`.

Functions

`KLD(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/KLD): Computes Kullback-Leibler divergence loss between `y_true` and `y_pred`.

`MAE(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAE): Computes the mean absolute error between labels and predictions.

`MAPE(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAPE): Computes the mean absolute percentage error between `y_true` and `y_pred`.

`MSE(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSE): Computes the mean squared error between labels and predictions.

`MSLE(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSLE): Computes the mean squared logarithmic error between `y_true` and `y_pred`.

`binary_crossentropy(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/binary_crossentropy): Computes the binary crossentropy loss.

`categorical_crossentropy(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/categorical_crossentropy): Computes the categorical crossentropy loss.

`categorical_hinge(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/categorical_hinge): Computes the categorical hinge loss between `y_true` and `y_pred`.

`cosine_similarity(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/cosine_similarity): Computes the cosine similarity between labels and predictions.

`deserialize(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/deserialize): Deserializes a serialized loss class/function instance.

`get(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/get): Retrieves a Keras loss as a `function`/`Loss` class instance.

`hinge(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/hinge): Computes the hinge loss between `y_true` and `y_pred`.

`huber(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/huber): Computes Huber loss value.

`kl_divergence(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/KLD): Computes Kullback-Leibler divergence loss between `y_true` and `y_pred`.

`kld(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/KLD): Computes Kullback-Leibler divergence loss between `y_true` and `y_pred`.

`kullback_leibler_divergence(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/KLD): Computes Kullback-Leibler divergence loss between `y_true` and `y_pred`.

`log_cosh(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/log_cosh): Logarithm of the hyperbolic cosine of the prediction error.

`logcosh(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/log_cosh): Logarithm of the hyperbolic cosine of the prediction error.

`mae(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAE): Computes the mean absolute error between labels and predictions.

`mape(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAPE): Computes the mean absolute percentage error between `y_true` and `y_pred`.

`mean_absolute_error(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAE): Computes the mean absolute error between labels and predictions.

`mean_absolute_percentage_error(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MAPE): Computes the mean absolute percentage error between `y_true` and `y_pred`.

`mean_squared_error(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSE): Computes the mean squared error between labels and predictions.

`mean_squared_logarithmic_error(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSLE): Computes the mean squared logarithmic error between `y_true` and `y_pred`.

`mse(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSE): Computes the mean squared error between labels and predictions.

`msle(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/MSLE): Computes the mean squared logarithmic error between `y_true` and `y_pred`.

`poisson(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/poisson): Computes the Poisson loss between y_true and y_pred.

`serialize(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/serialize): Serializes loss function or `Loss` instance.

`sparse_categorical_crossentropy(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/sparse_categorical_crossentropy): Computes the sparse categorical crossentropy loss.

`squared_hinge(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/losses/squared_hinge): Computes the squared hinge loss between `y_true` and `y_pred`.

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