See playlist (https://www.youtube.com/playlist?list=PLQY2H8rRoyvxtOJfAzfs0Cq5FqBuYO8e8)

Module: tf.keras.metrics

Built-in metrics.

View aliases

Main aliases

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

Classes

`class AUC` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/AUC): Approximates the AUC (Area under the curve) of the ROC or PR curves.

`class Accuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Accuracy): Calculates how often predictions equal labels.

`class BinaryAccuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/BinaryAccuracy): Calculates how often predictions match binary labels.

`class BinaryCrossentropy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/BinaryCrossentropy): Computes the crossentropy metric between the labels and predictions.

`class CategoricalAccuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/CategoricalAccuracy): Calculates how often predictions match one-hot labels.

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

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

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

class FalseNegatives (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/FalseNegatives): Calculates the number of false negatives.

class FalsePositives (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/FalsePositives): Calculates the number of false positives.

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

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

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

class Mean (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Mean): Computes the (weighted) mean of the given values.

class MeanAbsoluteError (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/MeanAbsoluteError): Computes the mean absolute error between the labels and predictions.

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

class MeanIoU (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/MeanIoU): Computes the mean Intersection-Over-Union metric.

class MeanRelativeError (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/MeanRelativeError): Computes the mean relative error by normalizing with the given values.

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

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

class MeanTensor (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/MeanTensor): Computes the element-wise (weighted) mean of the given tensors.

class Metric (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Metric): Encapsulates metric logic and state.

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

class Precision (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Precision): Computes the precision of the predictions with respect to the labels.

class PrecisionAtRecall (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/PrecisionAtRecall): Computes best precision where recall is >= specified value.

`class Recall` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Recall): Computes the recall of the predictions with respect to the labels.

`class RecallAtPrecision` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/RecallAtPrecision): Computes best recall where precision is >= specified value.

`class RootMeanSquaredError` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/RootMeanSquaredError): Computes root mean squared error metric between `y_true` and `y_pred`.

`class SensitivityAtSpecificity` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/SensitivityAtSpecificity): Computes best sensitivity where specificity is >= specified value.

`class SparseCategoricalAccuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/SparseCategoricalAccuracy): Calculates how often predictions match integer labels.

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

`class SparseTopKCategoricalAccuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/SparseTopKCategoricalAccuracy): Computes how often integer targets are in the top `K` predictions.

`class SpecificityAtSensitivity` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/SpecificityAtSensitivity): Computes best specificity where sensitivity is >= specified value.

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

`class Sum` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/Sum): Computes the (weighted) sum of the given values.

`class TopKCategoricalAccuracy` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/TopKCategoricalAccuracy): Computes how often targets are in the top `K` predictions.

`class TrueNegatives` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/TrueNegatives): Calculates the number of true negatives.

`class TruePositives` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/TruePositives): Calculates the number of true positives.

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_accuracy(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/binary_accuracy): Calculates how often predictions match binary labels.

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

`categorical_accuracy(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/categorical_accuracy): Calculates how often predictions match one-hot labels.

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

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

`get(...)` (https://www.tensorflow.org/api_docs/python/tf/keras/metrics/get): Retrieves a Keras metric as a `function`/`Metric` class instance.

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

`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/metrics/serialize): Serializes metric function or `Metric` instance.

`sparse_categorical_accuracy(...)`
(https://www.tensorflow.org/api_docs/python/tf/keras/metrics/sparse_categorical_accuracy): Calculates how often predictions match integer labels.

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

`sparse_top_k_categorical_accuracy(...)`
(https://www.tensorflow.org/api_docs/python/tf/keras/metrics/sparse_top_k_categorical_accuracy): Computes how often integer targets are in the top `K` predictions.

`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`.

`top_k_categorical_accuracy(...)`
(https://www.tensorflow.org/api_docs/python/tf/keras/metrics/top_k_categorical_accuracy): Computes how often targets are in the top `K` predictions.

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