Module: tf.contrib.metrics

Defined in `tensorflow/contrib/metrics/__init__.py`.

Ops for evaluation metrics and summary statistics.

See the Metrics (contrib) guide.

Functions

`accuracy(...)` : Computes the percentage of times that predictions matches labels.

`aggregate_metric_map(...)` : Aggregates the metric names to tuple dictionary.

`aggregate_metrics(...)` : Aggregates the metric value tensors and update ops into two lists.

`auc_using_histogram(...)` : AUC computed by maintaining histograms.

`confusion_matrix(...)` : Deprecated. Use tf.confusion_matrix instead.

`set_difference(...)` : Compute set difference of elements in last dimension of `a` and `b`.

`set_intersection(...)` : Compute set intersection of elements in last dimension of `a` and `b`.

`set_size(...)` : Compute number of unique elements along last dimension of `a`.

`set_union(...)` : Compute set union of elements in last dimension of `a` and `b`.

`sparse_recall_at_top_k(...)` : Computes recall@k of top-k predictions with respect to sparse labels.

`streaming_accuracy(...)` : Calculates how often `predictions` matches `labels`.

`streaming_auc(...)` : Computes the approximate AUC via a Riemann sum.

`streaming_concat(...)` : Concatenate values along an axis across batches.

`streaming_covariance(...)` : Computes the unbiased sample covariance between `predictions` and `labels`.

`streaming_curve_points(...)` : Computes curve (ROC or PR) values for a prespecified number of points.

`streaming_false_negatives(...)` : Computes the total number of false negatives.

`streaming_false_negatives_at_thresholds(...)`

`streaming_false_positives(...)` : Sum the weights of false positives.

`streaming_false_positives_at_thresholds(...)`

`streaming_mean(...)` : Computes the (weighted) mean of the given values.

`streaming_mean_absolute_error(...)` : Computes the mean absolute error between the labels and predictions.

`streaming_mean_cosine_distance(...)` : Computes the cosine distance between the labels and predictions.

`streaming_mean_iou(...)` : Calculate per-step mean Intersection-Over-Union (mIOU).

`streaming_mean_relative_error(...)` : Computes the mean relative error by normalizing with the given values.

`streaming_mean_squared_error(...)` : Computes the mean squared error between the labels and predictions.

`streaming_mean_tensor(...)` : Computes the element-wise (weighted) mean of the given tensors.

`streaming_pearson_correlation(...)` : Computes Pearson correlation coefficient between `predictions`, `labels`.

`streaming_percentage_less(...)` : Computes the percentage of values less than the given threshold.

`streaming_precision(...)` : Computes the precision of the predictions with respect to the labels.

`streaming_precision_at_thresholds(...)` : Computes precision values for different `thresholds` on `predictions`.

`streaming_recall(...)` : Computes the recall of the predictions with respect to the labels.

`streaming_recall_at_k(...)` : Computes the recall@k of the predictions with respect to dense labels. (deprecated)

`streaming_recall_at_thresholds(...)` : Computes various recall values for different `thresholds` on `predictions`.

`streaming_root_mean_squared_error(...)` : Computes the root mean squared error between the labels and predictions.

`streaming_sensitivity_at_specificity(...)` : Computes the sensitivity at a given specificity.

`streaming_sparse_average_precision_at_k(...)` : Computes average precision@k of predictions with respect to sparse labels.

`streaming_sparse_average_precision_at_top_k(...)` : Computes average precision@k of predictions with respect to sparse labels.

`streaming_sparse_precision_at_k(...)` : Computes precision@k of the predictions with respect to sparse labels.

`streaming_sparse_precision_at_top_k(...)` : Computes precision@k of top-k predictions with respect to sparse labels.

`streaming_sparse_recall_at_k(...)` : Computes recall@k of the predictions with respect to sparse labels.

`streaming_specificity_at_sensitivity(...)` : Computes the specificity at a given sensitivity.

`streaming_true_negatives(...)` : Sum the weights of true_negatives.

`streaming_true_negatives_at_thresholds(...)`

`streaming_true_positives(...)` : Sum the weights of true_positives.

`streaming_true_positives_at_thresholds(...)`

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