package com.twitter.timelines.data\_processing.ml\_util.aggregation\_framework.metrics

import com.twitter.ml.api.\_

/\*\*

\* A "human-readable" metric that can be applied to features of multiple

\* different types. Wrapper around AggregationMetric used as syntactic sugar

\* for easier config.

\*/

trait EasyMetric extends Serializable {

/\*

\* Given a feature type, fetches the corrrect underlying AggregationMetric

\* to perform this operation over the given feature type, if any. If no such

\* metric is available, returns None. For example, MEAN cannot be applied

\* to FeatureType.String and would return None.

\*

\* @param featureType Type of feature to fetch metric for

\* @param useFixedDecay Param to control whether the metric should use fixed decay

\* logic (if appropriate)

\* @return Strongly typed aggregation metric to use for this feature type

\*

\* For example, if the EasyMetric is MEAN and the featureType is

\* FeatureType.Continuous, the underlying AggregationMetric should be a

\* scalar mean. If the EasyMetric is MEAN and the featureType is

\* FeatureType.SparseContinuous, the AggregationMetric returned could be a

\* "vector" mean that averages sparse maps. Using the single logical name

\* MEAN for both is nice syntactic sugar making for an easier to read top

\* level config, though different underlying operators are used underneath

\* for the actual implementation.

\*/

def forFeatureType[T](

featureType: FeatureType,

): Option[AggregationMetric[T, \_]]

}