package com.twitter.cr\_mixer.module

import com.twitter.inject.TwitterModule

import com.twitter.simclusters\_v2.thriftscala.EmbeddingType

import com.twitter.simclusters\_v2.thriftscala.InternalId

import com.twitter.simclusters\_v2.thriftscala.ModelVersion

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.frigate.common.store.strato.StratoFetchableStore

import com.twitter.simclusters\_v2.common.UserId

import com.twitter.simclusters\_v2.common.TweetId

import com.twitter.strato.client.{Client => StratoClient}

import com.twitter.storehaus.ReadableStore

import com.twitter.simclusters\_v2.thriftscala.ScoringAlgorithm

import com.google.inject.Provides

import com.google.inject.Singleton

import com.twitter.hermit.store.common.ObservedReadableStore

import javax.inject.Named

import com.twitter.cr\_mixer.model.ModuleNames

import com.twitter.representationscorer.thriftscala.ListScoreId

object RepresentationScorerModule extends TwitterModule {

private val rsxColumnPath = "recommendations/representation\_scorer/listScore"

private final val SimClusterModelVersion = ModelVersion.Model20m145k2020

private final val TweetEmbeddingType = EmbeddingType.LogFavBasedTweet

@Provides

@Singleton

@Named(ModuleNames.RsxStore)

def providesRepresentationScorerStore(

statsReceiver: StatsReceiver,

stratoClient: StratoClient,

): ReadableStore[(UserId, TweetId), Double] = {

ObservedReadableStore(

StratoFetchableStore

.withUnitView[ListScoreId, Double](stratoClient, rsxColumnPath).composeKeyMapping[(

UserId,

TweetId

)] { key =>

representationScorerStoreKeyMapping(key.\_1, key.\_2)

}

)(statsReceiver.scope("rsx\_store"))

}

private def representationScorerStoreKeyMapping(t1: TweetId, t2: TweetId): ListScoreId = {

ListScoreId(

algorithm = ScoringAlgorithm.PairEmbeddingLogCosineSimilarity,

modelVersion = SimClusterModelVersion,

targetEmbeddingType = TweetEmbeddingType,

targetId = InternalId.TweetId(t1),

candidateEmbeddingType = TweetEmbeddingType,

candidateIds = Seq(InternalId.TweetId(t2))

)

}

}