package com.twitter.cr\_mixer.module

package similarity\_engine

import com.google.inject.Provides

import com.twitter.ann.common.thriftscala.AnnQueryService

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

import com.twitter.cr\_mixer.module.EmbeddingStoreModule

import com.twitter.cr\_mixer.module.thrift\_client.AnnQueryServiceClientModule

import com.twitter.cr\_mixer.similarity\_engine.HnswANNSimilarityEngine

import com.twitter.finagle.stats.StatsReceiver

import com.twitter.inject.TwitterModule

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

import com.twitter.storehaus.ReadableStore

import javax.inject.Named

import com.twitter.ml.api.{thriftscala => api}

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

import com.twitter.cr\_mixer.config.TimeoutConfig

import com.twitter.cr\_mixer.similarity\_engine.SimilarityEngine.GatingConfig

import com.twitter.cr\_mixer.similarity\_engine.SimilarityEngine.SimilarityEngineConfig

import com.twitter.cr\_mixer.thriftscala.SimilarityEngineType

object ConsumerEmbeddingBasedTwoTowerSimilarityEngineModule extends TwitterModule {

@Provides

@Named(ModuleNames.ConsumerEmbeddingBasedTwoTowerANNSimilarityEngine)

def providesConsumerEmbeddingBasedTwoTowerANNSimilarityEngine(

@Named(EmbeddingStoreModule.TwoTowerFavConsumerEmbeddingMhStoreName)

twoTowerFavConsumerEmbeddingMhStore: ReadableStore[InternalId, api.Embedding],

@Named(AnnQueryServiceClientModule.TwoTowerFavAnnServiceClientName)

twoTowerFavAnnService: AnnQueryService.MethodPerEndpoint,

timeoutConfig: TimeoutConfig,

statsReceiver: StatsReceiver

): HnswANNSimilarityEngine = {

new HnswANNSimilarityEngine(

embeddingStoreLookUpMap = Map(

ModelConfig.TwoTowerFavALL20220808 -> twoTowerFavConsumerEmbeddingMhStore,

),

annServiceLookUpMap = Map(

ModelConfig.TwoTowerFavALL20220808 -> twoTowerFavAnnService,

),

globalStats = statsReceiver,

identifier = SimilarityEngineType.ConsumerEmbeddingBasedTwoTowerANN,

engineConfig = SimilarityEngineConfig(

timeout = timeoutConfig.similarityEngineTimeout,

gatingConfig = GatingConfig(

deciderConfig = None,

enableFeatureSwitch = None

)

)

)

}

}