Week 1 - Tasks 1&2 weekly report

Rémi Pichon - 8 february 2016

What has been implemented

Task 1

To complete task 1, several class have been added an other updated.

- Max Recommender (created)

MaxRecommender.java has beed added inspired by MeanRecommender.java. It perform a **max commendation** instead of a mean.

- ExecuteTaskOne (created)

Method *evaluateAndPrintResult* has been extracted in order to perform several different compute in one run.

Task 2

To complete task 2, several class have been added an other updated.

- ExecuteTaskTwo (created)

Method *displayMoviesRatings* has been implemented in order to output movies ratings computes.

- MovieRating (created)

New model to store mean rating and popularity for each movies (identified as movieId)

- DataReader (updated)

After readings userProfile from train files, movie ratings is computed. Add method *computeMovieRating* which iter over all user profiles to get each movies rakings and store it in a map of movies.

- FeatureSimilarity (updated)

Add methods ***symmetric***, ***asymmetricSimilarityHigherValue*** and ***asymmetricSimilarityLowerValue*** in order to test every possible combination.

- OverlapCaseAndSymetricSimilarity (created)

Inspired by OverlapSimilarity, add **movie rating (mean and popularity)** to the similarity calculation. User either symmetric or asymmetric with either higher or lower value. I let the bet match I get (symmetric for both popularity and mean)

Running instruction

There is one class ExecuteTaskOne.java wich run every possible match. The best match I get which is :

- MaxRecommender
- overlap similarity for Genres, Directors and Actors

There is one class ExecuteTaskTwo.java wich run the best match I get which is :

- MaxRecommender
- overlap similarity for Genres, Directors and Actors
- symmetric similarity for movie popularity
- symmetric similarity for movie mean rating