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Recommender Systems Assignment 2: Exercises 1, 2 & 3

Task guide - 08/03/2016

Similarity Metrics Changes:

- The following executor classes were added for this exercise (Package alg.ib):
ExecuteIB_Expt_1_deviation_from_item_mean, ExecuteIB_Expt_1_simple_average and ExecuteIB_Expt_1_weighted_average.
- Three new classes (Package similarity.metric) were added: CosineMetric, JaccardMetric and PearsonWithSignificanceWeightingMetric.

Neighbourhood Formation Changes:

- ExecuteIB_Expt_2 (Package alg.ib) was added as an executor.
- A SimilarityThreshold (package alg.ib.neighbourhood) class was added.

Prediction Generation Changes:

- The following executor classes were added for this exercise (Package alg.ib):
ExecuteIB_Expt_3_pearson, ExecuteIB_Expt_3_pearson_with_significance_weighting, ExecuteIB_Expt_3_jaccard and ExecuteIB_Expt_3_cosine.
- Two new classes were added (Package alg.ib.predictor): WeightedAveragePredictor and DeviationFromItemMeanPredictor.

Notes:

- To run this program for a particular experiment, simply follow the naming convention for the executor classes in the alg.ib package. For example, to run the weighted average metric for experiment one, run the "ExecuteIB_Expt_1_weighted_average" class.