

TDT4215 Recommender System Group Project

Learning Goal

Students could learn to solve practical problems through the combination of theories from this course and practice from industry area. Each group will develop their own news recommender system using the same dataset, which is collected from Adresseavisen portal. Students need to get their best results with the help of group work, experiments, and analytical thinking within a limited time.

The Assignment

The task is to develop a news recommender system as group project. Each group could choose their own tools and develop their own methods in order to get the best results. Online news is one of the most important and popular ways for people in absorbing information every day. But how to filter the most useful and critical ones from enormous amount of data is the real topic we concern now. This group project aims to find a solution of news recommender system with the help of Addressa dataset.

Note: More information about the dataset and examples could be found at <http://reclab.idi.ntnu.no/active1000.zip> and Blackboard.

Deliverables and evaluation

Due Date	Deliverable
30 January	Group project kick-off, including registration groups: group members' names and emails
13 February & 27 February & 12 March	Group project review
26 March	Final group project review
3 April	Group presentation and final report

Include this in your final report:

- Motivation for your project topic
- Gives a brief overview on existing news recommender algorithms and approaches
- Explain the derived recommender model and the architecture of the implemented recommender system
- The evaluation results
- Conclusion and remarks

Make sure to include all your decisions in the report. Why you chose to go for that exact

method instead of others, etc. The report should not exceed 15 pages without appendix. An example report will be posted on Blackboard. It is not a template, only some help to get started.

Group Presentation

The group presentation will be hold at the beginning of April (3/4). Requirements in terms of time etc. for the group presentation will be posted closer to the presentation date.

Evaluation Criteria

There will be several aspects of the evaluation. Your report and presentation will be considered as parts of your final evaluation result. As for the performance evaluation, we should adopt the following 4 metrics.

1. Recall (Hit Rate)
2. CTR (Click Through Rate)
3. ARHR
4. MSE

The details of these evaluation metrics are provided in another document (Project Description.pdf).

It is important that you include all important aspects in your report, especially how you've included relevant parts of the curriculum in your project. The presentation will also be weighted as well as your report as parts of your accomplishment.