

# 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 can 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 to get informed every day. But **how to filter the most useful and relevant ones** from the enormous amount of data available is the real topic we are concerned with 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 can be found at <http://reclab.idi.ntnu.no/active1000.zip> and Blackboard.

## Deliverables and evaluation

Due Date	Deliverable
28 January	Group project kick-off, including registration groups: group members' names and emails
18 February, 4 March, 24 March	Group project reviews
12 April	Report deadline
26 April	Group presentation [submission]

Include this in your **final report**:

- **Motivation** for your project topic
- Give a brief overview of **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 should be submitted by April 26<sup>th</sup>. Whether the actual presentations will take place and in what format will be decided during the semester, with regards to the development and impact of COVID-19 pandemic.

## **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, and 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.