

4215 Web Intelligence

Group Project Report Guidelines

Introduction

The group project in TDT4215 is obligatory and graded, and counts for 25% of the final grade. The project task is the same for all groups, though the groups are free to choose their own approach and techniques.

The deliverables of the project are:

1. Prototype implementation of a news recommender system
2. Report documenting the project and prototype
3. Presentation of project

The deadline for all the deliverables is April 12.

Evaluation Details

For the performance evaluation of the recommender system you have developed, you should adopt the following 3 metrics:

1. Precision, Recall and ROC
2. Click Through Rate (CTR)
3. Average reciprocal hit rate (ARHR)

The details of the evaluation methods is available in the group project examples document.

Content of report

The report should include the following sections:

- **Discussion of domain:** What characterizes the news domain? What are the particular challenges with news recommendation? Explain how your solution addresses issues that are of particular importance in the news domain.
- **Design of solution:** What approach have you adopted? Which technique(s) from the course have you used? You need to describe the functionality of your solution and justify the choice of approach and technique(s). Describe also positive and negative aspects of these techniques, as experienced from your project.
- **Implementation:** Explain which libraries or toolsets you have used, and justify your choices. Discuss the deployment of the recommendation framework, the issues or problems you met when setting up the environment, and your strategies for dealing with these problems. Describe your own implementation. You should also discuss your experiences with the Adressa dataset.

- **Evaluation of solution:** Evaluation scores that you generated by using the three different evaluation methods you use and their explanations should be included. You should also include a short paragraph about explaining the differences between these three evaluation methods and which one you think is the most suitable way of evaluating such a solution.

Page limit: 10 pages (11 pt Times New Roman)

Deadline: 13:00 on 12 th of April (report and presentation slides in pdf)

Presentation

Please note the following:

- The presentation should provide a summary of the project and follow the overall structure of the report.
- The presentation language is English.
- There is a time limit 10 minutes for the whole presentation (including questions).
- You should use slides, but feel free to give a small demo.
- We may ask questions that relate your group project to the theory of the course.

The presentation schedule will be announced later.

Evaluation criteria for group project

The group project is evaluated on the basis of three elements:

- Quality of prototype
- Quality of report
- Quality of presentation

We will give a total score for all three elements together.