

# DSCI 351 — Recommender Systems Project

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## Logistics

The following is the decription of the student project for the DSCI 351 course in the year 2025. There will be two submissions and two student presentations for the project.

The first submission is the project proposal and it must be provided as one PDF and uploaded to the online platform by 23:59, November 13, 2025, at the latest. The student will present their proposals in the lab session on November 14, 2025. This presentation will be 5 minutes.

The second submission is the final project and it must be provided as one PDF and uploaded to the online platform by 23:59, December 2, 2025, at the latest. The student will present their proposals in the sessions on December 3, 2025 and December 5, 2025. This presentation will be 10 minutes.

**Note that the deadlines are strict!**

The project is done in groups of **4-5** students. Please follow the given recommendations and requirements very carefully. Fulfill all the requirements to avoid a reduction of points for the project.

## Task

You should select a recommendation dataset of your own choice. The dataset should be comparable in size to the datasets from the homeworks. Develop an implementation plan and select a recommendation algorithm that you want to implement. To evaluate your implementation you need to compare your algorithm with several baselines, e.g., basic CF, simple baselines such as global averages, etc. You need to select those baselines depending on your dataset.

You can use any programming language and available libraries, but Python is recommended.

## Project proposal

Your project proposal needs to include exactly those three slides:

1. Motivation
2. Dataset
3. Implementation plan

## **Final project**

Your final project presentation needs to include exactly those five slides:

1. Motivation
2. Dataset
3. Methods
4. Experimental setup
5. Evaluation results

## **Deliverables**

The deliverables are one (!) document for project proposal and one (!) document for final document (i.e., a single presentation file in PDF). Please follow the guidelines for the structure of the presentations! Evaluation will be based on content and how the content is presented.

## **Deadline**

The strict deadline are:

Tuesday, November 13, 2025; 23:59 for project proposals.

Tuesday, December 2, 2025; 23:59 for final projects.

The submissions have to be done for each group only once in the online platform.