**COMP 7118 Project**

Progress report is due weekly on Thursday before class.

In this project, you’ll build a rigorous system for recommending movies to people based on various criteria.

The main tasks of the project include:

1. Obtain and process data into various forms.
2. Design strategies to recommend movies. There might be multiple strategies.
3. Evaluate your system.
4. Build a user-friendly interface to other people can use your system.
5. Report and present your work.

This is a team project. Each team consists of 3 people.

1. **Form a team**

You will have a week to form a team of three persons. After a week since the project starts, you will have one chance of forming a new team. So, form your team and choose teammates carefully. Team members will work on all aspects of the project, although one member should be mainly responsible for specific tasks.

1. **Understand and process the data**

The dataset that you’ll use for this project is the latest and largest MovieLens dataset with 27 million ratings.

This dataset might be too big, but it is a good starting point. Starting from this dataset, you should write scripts to create several smaller datasets that you can use for your project. For example, movies from the last 2 years, 5 years or random movies.

Once you select a set of movies, you can extract only ratings and tags information associated to these movies.

1. **Design strategies for recommending movies**

Your strategies for recommending movies should be based on ratings, tag genomes, and perhaps actor/director information.

1. **Design strategies for evaluating your system**

To evaluate your system and recommendation strategies, you need to cope with multiple scenarios. Each scenario might require a different approach.

The first scenario is a user within the system.

The second scenario is a user that is completely new to the system. The user interface of your system is particularly important for dealing with this type of users.

1. **Build the interface**

Your model is useful only if people can use it. There are various ways to make your model easy to use. I recommend that you use Plotly Dash to build the interface to your app. Each team member should be involved in designing/implementing the app.

1. **Reporting**

Progress report is due weekly.

1. **Grading and academic honesty**

Grades will be based on:

* Weekly progress
* Clarify of your report and presentation
* Thoughtfulness of your strategies
* Comprehensiveness of your evaluation
* Quality of your system’s user interface
* Contribution to other’s people projects
* Contribution of each team member. You must specify the overall percentages of each team member’s contribution to the project.

If you plagiarize, you will be reported to the department Chair and the College.

If you use material that you do not create, you must cite it. This means your report should have a list of references.

If you share material with other teams, you must report it. If you do not and the other team does not report it, you are potentially responsible for a dishonest act.