



Data Science Project

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Objectives

Schedule

Recommendation Systems

Context: **users** rate **items** (movies, restaurants, etc.)

Objective: **recommend** new **items** to users

Collaborative Filtering: a method for inferring missing ratings for users, useful for **recommendation**

Project Task

Project: **implement** and **evaluate** a recommendations system using collaborative filtering

- **objective:** learn to be autonomous, read state-of-the-art and implement it

General Flow

1. groups of 2-3 (to be decided by you by W2)
2. two presentations: pre-presentation (W3) and code presentation (W5)
3. final report: W7

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Schedule

Schedule

- **W1:** project presentation, collaborative filtering, bibliography
- **W2:** team compositions, study state-of-the-art, office hours support
- **W3:** presentations of project planning (15min + 15min discussion per team)
- **W4:** implementation, office hours support
- **W5:** presentations of code (15min + 15min discussion per team)
- **W6:** finalize project, office hours support
- **W7:** final presentation (results) (15min + 15min discussion per team)

Details of what each presentation should contain will be given the week before the deadline

First Tasks

1. **Find your team**
2. **Read related work:** read the survey, read MMDS chapters 9, 11; re-read chapter 3
3. **Decide what you want to implement for CF,** divide tasks in the team, discuss in W2 with me
4. **Prepare initial presentation** for W3

References i



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