

Task: Predict the rating scores of the pairs (u, i) in the Test.txt file.

Dataset:

- (1) Train.txt, which is used for training your models.
- (2) Test.txt, which is used for test.
- (3) ItemAttribute.txt, which is used for training your models (optional).
- (4) ResultForm.txt, which is the form of your result file.

The formats of datasets are explained in the DataFormatExplanation.txt.

Note that if you can use ItemAttribute.txt appropriately and improve the performance of the algorithms, additional points (up to 10) can be added to your final course score.

In this project, you need to report the predicted rating scores of the unknown pairs (u, i) in the Test.txt file. You can use any algorithms you have learned from the course or from other resources (such as MOOC).

One group (consisting of at most two students) needs to write a report about this project. The report should include but not limited to the following contents:

1. Basic statistics of the dataset (e.g., number of users, number of ratings, number of items, etc);

2. Details of the algorithms;
3. Experimental results of the recommendation algorithms (RMSE, training time, space consumption);
4. Theoretical analysis or/and experimental analysis of the algorithms.

The deadline is Jun. 15, 2020.

All your submitted assignments must be entirely your own group's. Any student found cheating or performing plagiarism will receive a final score of zero for this course.

任务：预测 **Test.txt** 文件中的对 (u, i) 的评分分数。

数据集：

- (1) **Train.txt**, 用于训练模型。
- (2) **Test.txt**, 用于测试。
- (3) **ItemAttribute.txt**, 用于训练模型（可选）。
- (4) **ResultForm.txt**, 它是结果文件的形式。

数据集的格式在 **DataFormatExplanation.txt** 中进行了说明。

请注意, 如果您可以适当地使用 **ItemAttribute.txt** 并改善算法的性能,

则可以在最终课程分数中添加其他分数（最高 10 分）。

在此项目中，您需要在 **Test.txt** 文件中报告未知对 (u, i) 的预测评分分数。您可以使用从本课程或其他资源（例如 MOOC）中学到的任何算法。

一个小组（最多由两个学生组成）需要写一份有关该项目的报告。该报告应包括但不限于以下内容：

- 1.数据集的基本统计信息（例如，用户数，评分数，项目数等）；
- 2.算法细节；
- 3.推荐算法的实验结果（RMSE，训练时间，空间消耗）；
- 4.算法的理论分析或/和实验分析。

截止日期是 2020 年 6 月 15 日。

您提交的所有作业都必须完全属于您自己的小组。任何被发现作弊或 performing 窃的学生将在本课程中获得零分。