MovieLens Project Submission

NEW MOVIELENS SUBMISSION

Status

You have completed this assignment. Review your grade and your assessment details.

▶ | **Your Response** due Jan 10, 2020 18:59 EST (in 4 months, 3 weeks) ✔

COMPLETE

▼ | **Assess Peers** due Jan 17, 2020 18:59 EST (in 5 months) ✔ **26 COMPLETED**

Status

You have successfully completed all of the required peer assessments for this assignment. You may assess additional peer responses if you want to. Completing additional assessments will not affect your final grade.

[**Continue Assessing Peers**]

▼ **Your Grade:** 100 out of 100

The question for this section

Your submission for this project is three files:

1. Your report in PDF format
2. Your report in Rmd format
3. A script in R format that generates your predicted movie ratings and RMSE score
   To upload and submit your files press the "Choose Files" button, select three files at once (using the control key on a Windows machine or command key on a Mac) and press "Choose," type a description for each, and then press the "Upload files" button.

   We recommend also providing a link to a GitHub repository containing the three files above.

   Note that when downloading files for peer assessments, R and Rmd files will be downloaded as txt files by default.

Your Response

https://rpubs.com/rezapci/MovieLens Presentation Report

https://github.com/rezapci/Harvardx.MasterofData.Science.Professional/tree/%C2%83 Harvardx.MasterofData.Science.Professional/HarvardX_PH125.9_Capstone_Proj_Movie Lens

Your Upload

MovieLens

"This report is part of the final project capstone to obtain the 'Professional Certificate in Master of Data Science' emited by Harvard University Harvard, through edx platform for education and learning. The main objective is to create a recommendatin system using the MovieLens dataset, and it must be done training a machine learning algorithm using the inputs in one subset to predict movie ratings in the validation set."

RMSE

Assessments of Your Response

▼ Files   10 / 10 POINTS

- **PEER MEDIAN GRADE - 10 POINTS**

  ## All correct ❶

  PEER 1 - ALL CORRECT

ok
PEER 2 - ALL CORRECT
All files can be found.
PEER 3 - ALL CORRECT
good

▼ Report   40 / 40 POINTS

- **PEER MEDIAN GRADE - 40 POINTS**
Easy to follow ❶

PEER 1 - EASY TO FOLLOW
ok
PEER 2 - MINOR FLAWS IN MULTIPLE SECTIONS
I think too much details and analysis on unnecessary areas of objectives in this
assignment - thus hard to follow.
PEER 3 - EASY TO FOLLOW
good

▼ Code   25 / 25 POINTS

- **PEER MEDIAN GRADE - 25 POINTS**
Easy to follow and well-commented ❶

PEER 1 - EASY TO FOLLOW AND WELL-COMMENTED
ok
PEER 2 - EASY TO FOLLOW AND WELL-COMMENTED
I learn more from this work.
PEER 3 - EASY TO FOLLOW AND WELL-COMMENTED
good

▼ RMSE   25 / 25 POINTS

- **PEER MEDIAN GRADE - 25 POINTS**
Less than 0.87750 ❶

PEER 1 - LESS THAN 0.87750
ok
PEER 2 - LESS THAN 0.87750

Very well achieved.

PEER 3 - 0.87751 TO 0.87916

good

▼ **Additional comments on your response**

- PEER 1

  ok

  PEER 2

  PEER 3

  It was a good report

▼ **Provide feedback on peer assessments**

Status

Your feedback has been submitted. Course staff will be able to see this feedback when they review course records.

MovieLens Grading Rubric

The following is the grading rubric your peers will be using to evaluate your project. There are also opportunities for your peers to provide written feedback as well (required for some categories and optional for others).

Files (10 points possible)

The appropriate files are submitted in the correct formats: a report in both PDF and Rmd format and an R script in R format.

- 0 points: No files provided AND/OR the files provided appear to violate the edX Honor Code.

- 3 points: Multiple requested files are missing and/or not in the correct formats.

- 5 points: One file is missing and/or not in the correct format.

- 10 points: All 3 files were submitted in the requested formats.

Report (40 points possible)

The report documents the analysis and presents the findings, along with supporting statistics and figures. The report must be written in English and uploaded. The report must include the RMSE generated. The report must include at least the following sections:

1. an **introduction/overview/executive summary** section that describes the dataset and summarizes the goal of the project and key steps that were performed

2. a **methods/analysis** section that explains the process and techniques used, such as data cleaning, data exploration and visualization, any insights gained, and your modeling approach

3. a **results** section that presents the modeling results and discusses the model performance

4. a **conclusion** section that gives a brief summary of the report, its limitations and future work (the last two are recommended but not necessary)

- 0 points: The report is either not uploaded or contains very minimal information AND/OR the report appears to violate the edX Honor Code.

- 10 points: Multiple required sections of the report are missing.

- 15 points: The methods/analysis or the results section of the report is missing or missing significant supporting details. Other sections of the report are present.

- 20 points: The introduction/overview or the conclusion section of the report is missing, not well-presented or not consistent with the content.

- 20 points: The report includes all required sections, but the report is significantly difficult to follow or missing supporting detail in multiple sections.

- 25 points: The report includes all required sections, but the report is difficult to follow or missing supporting detail in one section.

- 30 points: The report includes all required sections and is well-drafted and easy to follow, but with minor flaws in multiple sections.

- 35 points: The report includes all required sections and is easy to follow, but with minor flaws in one section.

- 40 points: The report includes all required sections, is easy to follow with good supporting detail throughout, and is insightful and innovative.

Code (25 points)

The code in the R script should should be well-commented and easy to follow. You are **not required** to run the code provided (although you may if you wish), but you should visually inspect it.

- 0 points: No code provided AND/OR the code appears to violate the edX Honor Code.

- 10 points: Code appears that it would not run/is very difficult to follow or interpret.

- 15 points: Code appears that it would run without throwing errors, can be followed, is at least mostly consistent with the report, but has no comments or explanation.

- 20 points: Code appears that it would run without throwing errors, can be followed, but without sufficient comments or explanations.

- 25 points: Code is easy to follow, is consistent with the report, and is well-commented.

RMSE (25 points)

Provide the appropriate score given the reported RMSE. *Please be sure not to use the validation set for training or regularization - you may wish to create an additional partition of training and test sets from the provided* **edx** *dataset to experiment with multiple parameters or use cross-validation.*

- 0 points: No RMSE reported AND/OR code used to generate the RMSE appears to violate the edX Honor Code.

- 5 points: RMSE >= 0.90000 AND/OR the reported RMSE is the result of overtraining (validation set used for **anything** except reporting the final RMSE value)

- 10 points: 0.86550 <= RMSE <= 0.89999

- 15 points: 0.86500 <= RMSE <= 0.86559

- 20 points: 0.86490 <= RMSE <= 0.86499

- 25 points: RMSE <= 0.8649

Have a question about the MovieLens project? Need some feedback on the best approach to take or some troubleshooting for a snippet of your code? You can ask your questions here!

You are encouraged to discuss **general approaches** to the MovieLens project. It is okay to post **small snippets** of code if you're having trouble getting a particular piece of code to run. However, you **may not post your entire R script** for the project.

Discussion: MovieLens Project

Topic: MovieLens Project / MovieLens Project

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💬 **IMPORTANT: Movielens project due date!** Note that **submissions** for the Movielens project are **due one week before course close, o...** 📌 Pinned 👤 Staff	1
❓ **Regularization** Hello, I have calculated RMSE's for the naive and three other effects on the validation but then I r...	7
❓ **knit as html/pdf** I added a little bit of LaTeX to the R markdown document. It works fine converting to html but se...	4
❓ **Getting memory size error** I am getting this error when trying to train edx datatset: "Error: cannot allocate vector of size 769....	6
☑ **Clarification Requested: Test v. Validation** All, Am I correct in my assessment that the code provided to generate the datasets appears to us...	7
☑ **my assess project not submitted fully** my assignment not submitted correctly due to server firewall ssh attach all outbound ports were ...	3
☑ **Should I include the data from the previous section?** I mean, do you want only the validation and RMSE for different models (with all the explanation) ...	6
❓ **Error kniting to pdf** Hello I am getting the below error despite that I had installed tinytex in r and MiKTeX Error: Failed...	2
☑ **Can we edit training and validation set?** I have couple of questions: 1. I am struggling to run training function on even 2% subset of the ed...	3
💬 **genre effect** Hey all, I'm interested in looking at the genre data and treating it like the user and movie effect b...	1

? Getting NA values when I predict

This is beyond me so I decided to ask for help. I am utilizing a train and test set derived from edx … 3

? Assess Peers: Unable to submit

Hello staff, after submitting the assess peer twice, I am unable to submit the third one and contin… 1

☑ "MovieLens Project Submission". 7