




BerkeleyX: CS110x Big Data Analysis with Apache Spark





Bookmarks

► Week 1 - Big Data and Data Science

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Lecture 2: Performing Data Science and Preparing Data Quizzes 

Lab 2 - Movie Rating Prediction using Alternating Least Squares
Lab due Sep 13, 2016 at 04:30 IST 

Lab 2 Quiz Questions Quizzes 

Week 2 - Performing Data Science > Lab 2 Quiz Questions > Lab 2 Quiz Questions



Bookmark

You should complete Lab 2 before answering these quiz questions.

Part (2c) Root Mean Square Error (RMSE) Question 1

(1/1 point)

If your model perfectly predicts the user ratings, what will the Root Mean Square Error be?

☐ NaN (Not a Number)

☒ 0 

☐ 0.5

☐ 1

☐ Square root of two

EXPLANATION

If the model perfectly predicts the ratings, the residuals will all be zero, so the RMSE will be zero.

Part (2c) Root Mean Square Error (RMSE) Question 2

(1/1 point)

If all of the predicted ratings are off by one (that is they are 1 higher or lower than the actual ratings), what will the RMSE be?

☐ NaN (Not a Number)

☐ 0

☐ 0.5

☒ 1 ✓

☐ Square root of two

EXPLANATION

If all values are off by one, the residuals will all be plus or minus 1, so the RMSE will be one.



Part (2d) Comparing Your Model to Average Ratings

(1/1 point)

How do your model's predicted ratings compare to using the average rating?

- ☐ The model is less accurate than using the average rating
- ☐ The model has comparable accuracy to using the average rating
- ☒ The model is more accurate than using the average rating ✓
- ☐ The model cannot be compared with using the average rating

EXPLANATION

Your model more accurately predicts the ratings than using just the average rating, as the model's RMSE is significantly lower than the RMSE when using the average rating.



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