Microsoft: DAT203x Data Science and Machine Learning Essentials

QUESTION 1 (1 point possible)

While evaluating the performance of a regression model you discover that the residuals are randomly distributed and exhibit no significant structure with respect to the values of the label or the features.

This indicates which two of the following conditions are true?

- [x] The model is a good fit to the data. ✔
- [ ] The data are exhibiting nonlinear behavior not accounted for by the model.
- [x] The information in the features is being exploited for the most part. ✔
- [x] The residuals do not vary with the value of the label as one would expect.

✖

Note: Make sure you select all of the correct options—there may be more than one!

EXPLANATION

The residuals of a good regression model should exhibit a random distribution with no particular structure with respect to the values of the label or the features. The randomness and lack of structure indicates that model fits the data well and that the information in the features has been exploited by the model.

You have used 2 of 2 submissions

Module 4 Review
Homework due Oct 30, 2015 at 00:00 UTC

- Module 5: Recommenders and Publishing Your Work
- Final Exam