

MITx: 14.310x Data Analysis for Social Scientists

Heli



Bookmarks

- Module 1: The Basics of R and Introduction to the Course
- Entrance Survey
- Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions
- Module 3: Gathering and Collecting Data, Ethics, and Kernel Density Estimates
- Module 4: Joint,
 Marginal, and
 Conditional
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 Functions of Random
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Module 10: Practical Issues in Running Regressions, and Omitted Variable Bias > Omitted Variable Bias > Introduction to Local Linear Regression - Quiz

Introduction to Local Linear Regression - Quiz

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Question 1

1/1 point (graded)

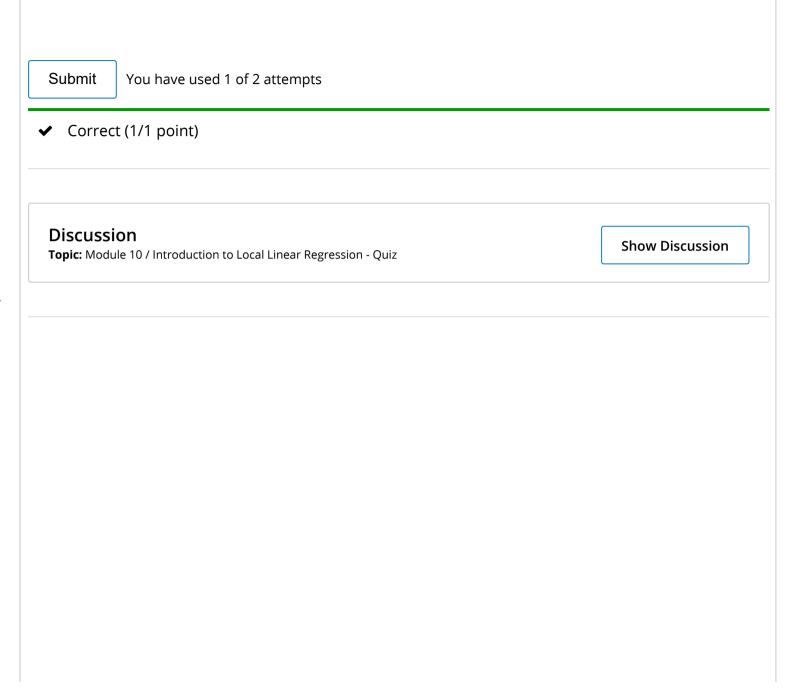
Why might defining piece-wise linear variables perform better than approximation using dummy variables?

- a. Coefficients become easier to interpret
- b. Accounts for omitted variable bias
 - c. Less concern about multicollinearity
- 🏿 d. More accurately modeling complex/flexible functional forms ✔

Explanation

Simply approximating with the dummies creates artificial discrete steps. Piece-wise linear variables will estimate lines at each interval, which can better reflect smooth complex functional forms.

- Module 5: Moments of a Random Variable,
 Applications to Auctions,
 Intro to Regression
- Module 6: Special
 Distributions, the
 Sample Mean, the
 Central Limit Theorem,
 and Estimation
- Module 7: Assessing and Deriving Estimators -Confidence Intervals, and Hypothesis Testing
- Module 8: Causality,
 Analyzing Randomized
 Experiments, &
 Nonparametric
 Regression
- Module 9: Single and Multivariate Linear Models
- Module 10: Practical Issues in Running



Regressions, and **Omitted Variable Bias**

Practical Issues in Running

Regressions

due Dec 5, 2016 05:00 IST

Omitted Variable Bias

due Dec 5, 2016 05:00 IST

Module 10: Homework

due Nov 28, 2016 05:00 IST

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