

MITx: 14.310x Data Analysis for Social Scientists

Help



- 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 Distributions &

Module 11: Intro to Machine Learning and Data Visualization > Machine Learning II > Prediction in Policy - Quiz

# **Prediction in Policy - Quiz**

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# Question 1

1/1 point (graded)

True or False: Policy questions of interest are not always causal in nature.

a.	True	<b>~</b>

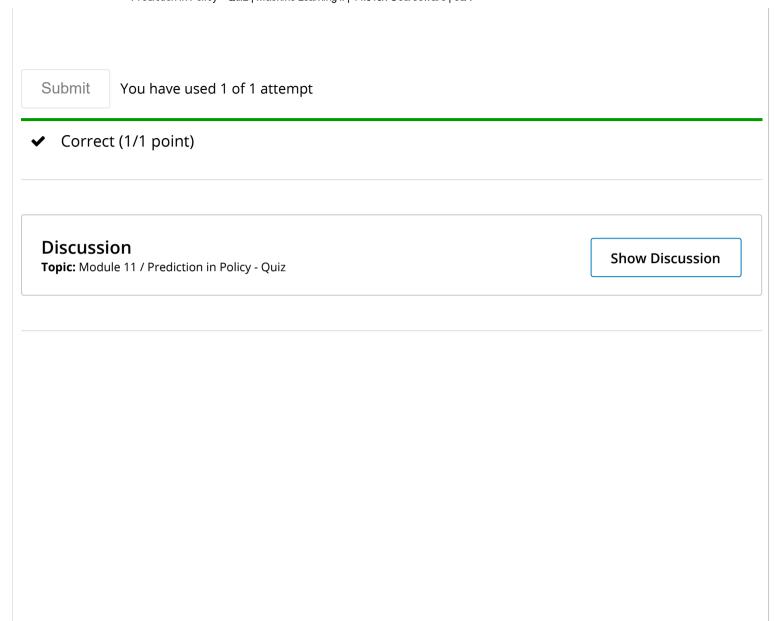
b. False

# **Explanation**

As with the rain example Prof. Mullainathan mentioned in class, sometimes the decisions that we need to make are dependent on prediction, not on causal unknowns. Another example is the decisions of admissions committee to admit a given student, which depends on whether the student would do well or not. If there were an algorithm to predict students' success (measured in whatever way, possibly using machine learning to pre-process available data), that could help reduce the number of students who end up struggling.

<u>Functions of Random</u> Variable

- 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**
- Module 11: Intro to **Machine Learning and Data Visualization**

### **Machine Learning I**

Finger Exercises due Dec 12, 2016 05:00 IST

## **Machine Learning II**

Finger Exercises due Dec 12, 2016 05:00 IST

## **Visualizing Data**

Finger Exercises due Dec 12, 2016 05:00 IST

- ▶ Module 12: Endogeneity, Instrumental Variables, and Experimental <u>Design</u>
- Exit Survey



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