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- ▶ [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 & Functions of Random Variable](#)

Module 11: Intro to Machine Learning and Data Visualization > Machine Learning I > Why the Artificial Intelligence Approach Stalled - Quiz

Why the Artificial Intelligence Approach Stalled - Quiz

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Question 1

1/1 point (graded)

Which of the following does Prof. Mullainathan cite as a reason for why the Artificial Intelligence (AI) approach to solving complex problems, such as face recognition, ultimately stalled? (Select all that apply)

- ☒ a. Subtleties, such as in language, that are difficult to account for
- ☐ b. The inability to solve even simple problems, such as playing chess
- ☒ c. Sheer complexity of the number of variations that could be encountered
- ☐ d. A lack of creativity and statistical understanding in approaching problems



Explanation

As mentioned in the lecture, the AI approach of trying to determine how humans approach a problem and then utilizing this understanding to create algorithms ultimately failed due to subtleties, such as for the natural language case, and the sheer complexity of many of the problems they attempted to solve.

- ▶ [Module 5: Moments of a Random Variable, Applications to Auctions, & Intro to Regression](#)
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- ▶ [Module 7: Assessing and Deriving Estimators - Confidence Intervals, and Hypothesis Testing](#)
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- ▶ [Module 9: Single and Multivariate Linear Models](#)
- ▶ [Module 10: Practical Issues in Running](#)

Therefore, answer choices A and C are correct. The AI approach was actually successful at creating algorithms for chess, however, as Prof. Mullainathan mentioned the world is not as simple as chess. Prof. Mullainathan did not cite Option D as a reason for why the field stalled.

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You have used 1 of 2 attempts

✓ Correct (1/1 point)

Question 2

1/1 point (graded)

True or False: The “magic trick” for solving problems such as face recognition and sentiment analysis is to simply better understand how humans approach these problems and apply this information using the Artificial Intelligence approach.

☐ a. True

☒ b. False ✓

Explanation

At the end of the lecture, Prof. Mullainathan describes how the “magic trick” is to turn the problem into an empirical exercise. For the example of sentiment analysis and movie reviews, one can determine the likelihood ratio of certain words, meaning determine which words are most likely to appear in good and bad reviews. Then, you can select the words that are most likely to determine if a review is positive or negative and apply those to your analysis.

Regressions, and
Omitted Variable Bias

▼ Module 11: Intro to
Machine Learning and
Data Visualization

Machine Learning I

due Dec 12, 2016 05:00 IST



Machine Learning II

due Dec 12, 2016 05:00 IST



Visualizing Data

due Dec 12, 2016 05:00 IST



► Module 12:
Endogeneity,
Instrumental Variables,
and Experimental
Design

This approach to solving these types of problems will be discussed in more detail in the next lecture segment.

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You have used 1 of 1 attempt

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Discussion

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