

Check yourself - Impact of big data

Due Apr 24 at 11:59pm

Points 6

Questions 6

Time Limit None

Allowed Attempts 2

Instructions



Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	4 minutes	6 out of 6

⚠️ Answers will be shown after your last attempt

Score for this attempt: 6 out of 6

Submitted Apr 18 at 5:32pm

This attempt took 4 minutes.

Question 1

1 / 1 pts

What are some of the examples of negative impacts of data-driven decision-making provided by J. Stoyanovich in her video? Select all that apply.

- ☒ Lower prices are offered to more affluent (more likely white) buyers
- ☒ Ads for high-paying jobs were shown to men much more frequently than to women
- ☐ Price discount is provided to people of one gender and not the other
- ☐ Products and services are sold to only one ethnic group
- ☒ Location is inadvertently used to discriminate against Black and poor neighborhoods

Question 2

1 / 1 pts

Match doctrines of bias mitigation to their definitions:

Disparate treatment

A practice of treating someoneor ▼

Disparate impact

An adverse impact on a prote ▼

Question 3

1 / 1 pts

What is a better solution to address individual vs group fairness in algorithmic decision-making according to Stoyanovich? Select the most comprehensive definition.

- ☐ Find the best metric that balances fairness to the group vs individual
- ☐ Provide detailed comments in the code and publish the code of an algorithm
- ☐ Make the data public by placing it into a non-commercial repository
- ☒ Ensure that the context, data, assumptions, and effects are documented and made available

Question 4

1 / 1 pts

What type of harm (based on the "Data delusion..." article) does the following scenario describe?

Individuals share photos of themselves on a social media platform. Researchers use those photos to develop an algorithm that identifies those who are prone to depression based on individual face expressions and activities. The algorithm is then used by a manager to reward or promote "happier" employees.

- ☐ Optimized harm

☐ Individual harm

☒ Inferred harm

Question 5

1 / 1 pts

What are some of the measures that are used to ensure that diversity in big data works appropriately, depending on the context of use? Select all that apply.

☒ Coverage

☒ Utility

☒ Distance (similarity)

☒ Novelty

☐ Truth

☐ Location

Question 6

1 / 1 pts

What does a nutritional label for rankings help to understand? Select all that apply:

☒ ☐ tistical parity in the output

☐ Utility of the algorithm

☐ Data trustworthiness

☒ Attributes that go into scoring ranks

☒ Robustness of the method

Quiz Score: **6** out of 6