Machine Learning in Practice Summative Quiz

LATEST SUBMISSION GRADE

100%

1. Why is Google very successful at Machine Learning?   **1 / 1 point**

    - ⦿ They have more data than other companies

    - ◯ They have better algorithms

    > ✓ **Correct**
    > Yes, data is the most important thing in machine learning

2. In machine learning, your testing set should be: **1 / 1 point**

    - ◯ A small selection of examples from your training set

    - ◯ As different as possible from your training set

    - ⦿ Examples that are not in your training set but similar to the examples in your training set

    - ◯ The same as your entire training set

    > ✓ **Correct**
    > Yes.

3. Neural networks risk being "Weapons of Math Destruction" because...   **1 / 1 point**

    - ⦿ They can be hard to understand

    - ◯ They are biased against women

    - ◯ They don't work very well

    - ◯ They work on low level data features

✓ **Correct**

Yes, though neural networks can work very well, it can be very hard to understand why they make certain decisions, which in turn can make it hard to spot when they make a mistake

4.   Why is it important to keep testing and training sets separate?   **1 / 1 point**

○ They need to use different data features

○ Machine learning algorithms can't handle too much data, so you might as well save the rest for testing

○ It makes training faster

◉ The algorithm might learn irrelevant features in the training set

✓ **Correct**

Yes, a separate testing set will help you spot that situation

5.   What is the best way of eliminating bias in machine learning?   **1 / 1 point**

○ develop better algorithms

◉ Have as many diverse people as possible involved in collecting data and training machine learning algorithms

✓ **Correct**

Yes, the more people that are involved the less likely that the biases of a small group of people will influence the machine learning systems. That's why I want as many people as possible to learn about machine learning.