

Machine Learning Summative Quiz

LATEST SUBMISSION GRADE

100%

1. Machine Learning means...

1 / 1 point

- ☐ Teaching people how to use machines better
- ☒ Training a statistical model based on example data
- ☐ Copying how human experts do tasks
- ☐ Programming a set of logical rules to perform a task



Correct

Yes, that is one possible definition of machine learning

2. What is the input to a classifier?

1 / 1 point

- ☐ Pictures
- ☐ Words
- ☐ Sounds
- ☒ Anything that can be represented on a computer



Correct

Pretty much, since the input is just a set of numbers

3. Which of these is the hardest challenge for AI?

1 / 1 point

- ☐ Playing Chess
- ☒ Recognising road signs
- ☐ Doing mathematical calculations

Correct

**Correct**

Though recognising things visual is easy for people it is very hard for computers. This is particularly true of images like road signs in real settings where different angles and lighting conditions can radically change what a road sign looks like.

4. The big improvement in machine learning in recent years has been due to:

1 / 1 point

- ☐ Revolutionary new algorithms
- ☒ Massive increases in the amount of data available

**Correct**

Yes, the most important thing in machine learning is having a lot of good data

5. To train a machine learning model to recognise words from audio recordings of speech your data would be:

1 / 1 point

- ☐ Lots of audio recordings of speech
- ☐ Lots of written versions of conversations
- ☒ Both audio of speech and the corresponding written words
- ☐ You don't need audio or written words, just rules

**Correct**

Yes, in supervised learning your examples need to include both inputs and outputs