

Week 2 Quiz

Latest Submission Grade

97.5%

1.

Question 1

Machine learning is an “iterative” process, meaning that an AI team often has to try many ideas before coming up with something that’s good enough, rather than have the first thing they try work.

1 / 1 point



True



False

Correct

2.

Question 2

Say you want to use Machine Learning to help your sales team with automatic lead sorting. I.e., Input A (a sales prospect) and output B (whether your sales team should prioritize them). The 3 steps of the workflow, in scrambled order, are:

(i) Deploy a trained model and get data back from users

(ii) Collect data with both A and B

(iii) Train a machine learning system to input A and output B

What is the correct ordering of these steps?

1 / 1 point



(ii) (iii) (i)



(i) (iii) (ii)

☐

(ii) (i) (iii)

☐

(i) (ii) (iii)

Correct

3.

Question 3

What are the key steps of a Data Science project?

1 / 1 point

☐

Collect data

☐

Analyze the data

☐

Suggest hypothesis or actions

☒

All of the above

Correct

4.

Question 4

Machine Learning programs can help: (select all that apply)

1 / 1 point

☒

Customize product recommendations

Correct

☒

Automate resume screening

Correct



Automate lead sorting in sales

Correct



Automate visual inspection in a manufacturing line

Correct

5.

Question 5

Unless you have a huge dataset (“Big Data”), it is generally not worth attempting machine learning or data science projects on your problem.

1 / 1 point



True



False

Correct

6.

Question 6

Say you want to build an AI system to help recruiters with automated resume screening. Which of these steps might be involved in “technical diligence” process? (Select all that apply.)

0.75 / 1 point



Defining an engineering timeline

Correct



Making sure that an AI system can meet the desired performance

Correct



Making sure you can get enough data for this project



Ensuring that this is valuable for your business (e.g., estimating the project ROI)

You didn't select all the correct answers

7.

Question 7

Which of these statements about “business diligence” do you agree with?

1 / 1 point



Business diligence is the process of ensuring that the envisioned AI technology is feasible.



Business diligence can typically be completed in less than a day.



Business diligence applies only if you are launching new product lines or businesses.



Business diligence is the process of ensuring that the AI technology, if it is built, is valuable for your business.

Correct

8.

Question 8

You want to use supervised learning for automated resume screening, as in the example above. Which of the following statements about the Training Set are true? (Select all that apply.)

1 / 1 point



It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate).

Correct



It will be used by the AI team to train the supervised learning algorithm.

Correct



It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate).



The Training set and Test set can be the same dataset.

9.

Question 9

For your automated resume screening application, you are now providing a Test Set to the AI team. Which of the following statements about the Test Set are true? (Select all that apply.)

1 / 1 point



It should give examples of both the input A (resume) and the desired output B (whether to move forward with a candidate)

Correct



The Test Set should ideally be identical to the Training Set.



It should give examples of the input A (resume) but not necessarily the desired output B (whether to move forward with a candidate).



It will be used by the AI team to evaluate the performance of the algorithm.

Correct

10.

Question 10

Which of these are reasons that it's often unrealistic to expect an ML system to be 100% accurate?

1 / 1 point



You might not have enough data



Data can be mislabeled



Data can be ambiguous



All of the above.

Correct