Week 1 Quiz

Question 1

3/3 points (ungraded)

What is the difference between artificial intelligence, machine learning, and deep learning?

This term is used to describe the field of computer science dedicated to solving cognitive problems commonly associated with human intelligence.

Artificial Intelligence ✔**Answer:** Artificial Intelligence

This term is used to describe a collection of algorithms that can learn from and make predictions based on recorded data, optimize a given utility function under uncertainty, extract hidden structures from data and classify data into concise descriptions.

Machine Learning ✔**Answer:** Machine Learning

This term is used to describe a branch of machine learning that involves layering algorithms in an effort to gain greater understanding of the data.

Deep Learning ✔**Answer:** Deep Learning

Submit

Answers are displayed within the problem

Question 2

3/3 points (ungraded)

Amazon SageMaker is a fully managed service that enables you to quickly and easily integrate machine learning-based models into your applications. It also provides services like notebook, training, and endpoint instances to help you get the job done. For each of the text boxes below, enter the type of instance (**notebook**, **training**, or **endpoint**) that matches its function.

notebook instances clean and understand data. ✔

Answer: notebook

training instances use data to train the model. ✔

Answer: training

endpoint instances use models to produce inferences. ✔

Answer: endpoint

Submit

Answers are displayed within the problem

Question 3

1/1 point (ungraded)

In supervised learning, algorithms discern patterns and relationships from an unlabeled dataset.

○ True

◉ False ✔

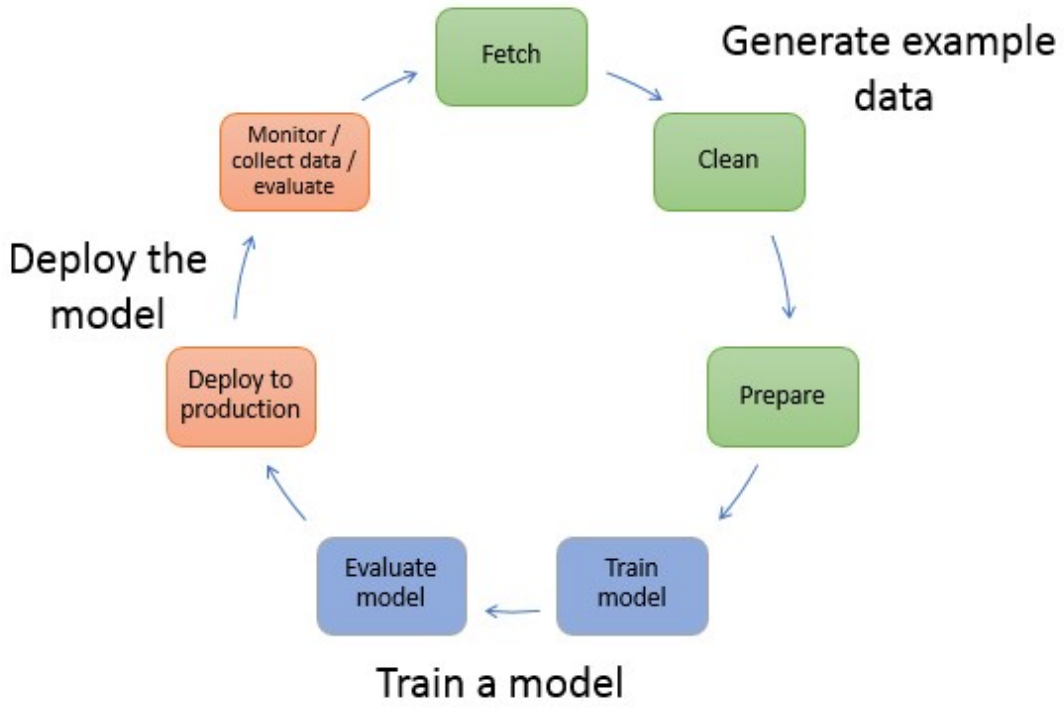
Submit

Answers are displayed within the problem

Question 4

1/1 point (ungraded)

The following diagram illustrates the typical workflow for creating a machine learning model:



In which phase would you choose a learning algorithm?

Train the model ✔**Answer:** Train the model

Submit

Answers are displayed within the problem