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Question 1

Question Type: MultipleChoice

A customer mentions that the ML team wants to avoid overfitting models. What does this mean?

Options:

- A-** The team wants to avoid wasting resources on training models with poorly selected hyperparameters.
- B-** The team wants to spend less time on creating the code for models and more time training models.
- C-** The team wants to avoid training models to the point where they perform less well on new data.
- D-** The team wants to spend less time figuring out which CPUs are available for training models.

Answer:

D

Question 2

Question Type: MultipleChoice

What are the mechanics of how a model trains?

Options:

- A-** Decides which algorithm can best meet the use case for the application in question
- B-** Adjusts the model's parameter weights such that the model can Better perform its tasks
- C-** Tests how accurately the model performs on a wide array of real world data
- D-** Detects Data drift or content drift that might compromise the ML model's performance

Answer:

A

Question 3

Question Type: MultipleChoice

What distinguishes deep learning (DL) from other forms of machine learning (ML)?

Options:

- A- Models based on neural networks with interconnected layers of nodes, including multiple hidden layers
- B- Models defined with Apache Spark rather than MapReduce
- C- Models that are trained through unsupervised, rather than supervised, training
- D- Models trained through multiple training processes implemented by different team members

Answer:

C

Question 4

Question Type: MultipleChoice

A company has recently expanded its ml engineering resources from 5 CPUs 1012 GPUs.

What challenge is likely to continue to stand in the way of accelerating deep learning (DU training)?

Options:

- A- A lack of understanding of the DL model architecture by the NL engineering team
- B- The complexity of adjusting model code to distribute the training process across multiple GPUs
- C- A lack of adequate power and cooling for the GPU-enabled servers
- D- The requirement that the ML team must wait for the IT team to initiate each new training process

Answer:

A

Question 5

Question Type: MultipleChoice

ML engineers are defining a convolutional neural network (CNN) model but they are not sure how many filters to use in each convolutional layer. What can help them address this concern?

Options:

- A- Using hyperparameter optimization (HPO)
- B- Distributing the training across multiple CPUs

C- Using a variable learning late

D- Training the model on multiple epochs

Answer:

D

Question 6

Question Type: MultipleChoice

An HPE Machine Learning Development Environment resource pool uses priority scheduling with preemption disabled. Currently Experiment 1 Trial 1 is using 32 of the pool's 40 total slots; it has priority 42. Users then run two more experiments:

* Experiment 2:1 trial (Trial 2) that needs 24 slots; priority 50

* Experiment 3; 1 trial (Trial 3) that needs 24 slots; priority 1

What happens?

Options:

- A- Trial 1 is allowed to finish. Then Trial 3 is scheduled.
- B- Trial 2 is scheduled on 8 of the slots. Then, after Trial 1 has finished, it receives 16 more slots.
- C- Trial 1 is allowed to finish. Then Trial 2 is scheduled.
- D- Trial 3 is scheduled on 8 of the slots. Then, after Trial 1 has finished, it receives 16 more slots.

Answer:

A

Question 7

Question Type: MultipleChoice

What common challenge do ML teams face in implementing hyperparameter optimization (HPO)?

Options:

- A- HPO is a joint ml and IT Ops effort, and engineers lack deep enough integration with the IT team.
- B- They cannot implement HPO on TensorFlow models, so they must move their models to a new framework.
- C- Implementing HPO manually can be time-consuming and demand a great deal of expertise.

D- ML teams struggle to find large enough data sets to make HPO feasible and worthwhile.

Answer:

A

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