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QUESTION 1

While monitoring your model training's GPU utilization, you discover that you have a native synchronous implementation. The training data is split into multiple files. You want to reduce the execution time of your input pipeline. What should you do?

- A. Increase the CPU load
- B. Add caching to the pipeline
- C. Increase the network bandwidth
- D. Add parallel interleave to the pipeline

Correct Answer: D

https://www.tensorflow.org/guide/data_performance

QUESTION 2

You are an ML engineer at a mobile gaming company. A data scientist on your team recently trained a TensorFlow model, and you are responsible for deploying this model into a mobile application. You discover that the inference latency of the current model doesn't meet production requirements. You need to reduce the inference time by 50%, and you are willing to accept a small decrease in model accuracy in order to reach the latency requirement. Without training a new model, which model optimization technique for reducing latency should you try first?

- A. Weight pruning
- B. Dynamic range quantization
- C. Model distillation
- D. Dimensionality reduction

Correct Answer: B

https://www.tensorflow.org/lite/performance/post_training_quantization#dynamic_range_quantization

QUESTION 3

You are designing an ML recommendation model for shoppers on your company's ecommerce website. You will use Recommendations AI to build, test, and deploy your system. How should you develop recommendations that increase revenue while following best practices?

- A. Use the "Other Products You May Like" recommendation type to increase the click-through rate.
- B. Use the "Frequently Bought Together" recommendation type to increase the shopping cart size for each order.
- C. Import your user events and then your product catalog to make sure you have the highest quality event stream.
- D. Because it will take time to collect and record product data, use placeholder values for the product catalog to test the



viability of the model.

Correct Answer: B

Frequently bought together recommendations aim to up-sell and cross-sell customers by providing product.

Reference: <https://rejoiner.com/resources/amazon-recommendations-secret-selling-online/>

QUESTION 4

You recently joined a machine learning team that will soon release a new project. As a lead on the project, you are asked to determine the production readiness of the ML components. The team has already tested features and data, model development, and infrastructure. Which additional readiness check should you recommend to the team?

- A. Ensure that training is reproducible.
- B. Ensure that all hyperparameters are tuned.
- C. Ensure that model performance is monitored.
- D. Ensure that feature expectations are captured in the schema.

Correct Answer: C

<https://developers.google.com/machine-learning/testing-debugging/pipeline/deploying>
<https://developers.google.com/machine-learning/testing-debugging/pipeline/production>

QUESTION 5

You are an ML engineer at a manufacturing company. You need to build a model that identifies defects in products based on images of the product taken at the end of the assembly line. You want your model to preprocess the images with lower computation to quickly extract features of defects in products. Which approach should you use to build the model?

- A. Reinforcement learning
- B. Recommender system
- C. Recurrent Neural Networks (RNN)
- D. Convolutional Neural Networks (CNN)

Correct Answer: D

<https://developers.google.com/machine-learning/practica/image-classification/convolutional-neural-networks>

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