

Google GCP-MLE

Machine Learning Engineer

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Question: 1

You recently designed and built a custom neural network that uses critical dependencies specific to your organization's framework. You need to train the model using a managed training service on Google Cloud. However, the ML framework and related dependencies are not supported by AI Platform Training. Also, both your model and your data are too large to fit in memory on a single machine. Your ML framework of choice uses the scheduler, workers, and servers distribution structure. What should you do?

- A. Use a built-in model available on AI Platform Training
- B. Build your custom container to run jobs on AI Platform Training
- C. Build your custom containers to run distributed training jobs on AI Platform Training
- D. Reconfigure your code to a ML framework with dependencies that are supported by AI Platform Training

Answer: C

Question: 2

You need to train a computer vision model that predicts the type of government ID present in a given image using a GPU-powered virtual machine on Compute Engine. You use the following parameters:

- Optimizer: SGD
- Image shape = 224x224
- Batch size = 64
- Epochs = 10
- Verbose = 2

During training you encounter the following error: ResourceExhaustedError: out of Memory (oom) when allocating tensor. What should you do?

- A. Change the optimizer
- B. Reduce the batch size
- C. Change the learning rate
- D. Reduce the image shape

Answer: A

Question: 3

You are an ML engineer at a large grocery retailer with stores in multiple regions. You have been asked to create an inventory prediction model. Your models features include region, location, historical demand, and seasonal popularity. You want the algorithm to learn from new inventory data on a daily basis. Which algorithms should you use to build the model?

- A. Classification
- B. Reinforcement Learning
- C. Recurrent Neural Networks (RNN)
- D. Convolutional Neural Networks (CNN)

Answer: B

Question: 4

You need to design a customized deep neural network in Keras that will predict customer purchases based on their purchase history. You want to explore model performance using multiple model architectures, store training data, and be able to compare the evaluation metrics in the same dashboard. What should you do?

- A. Create multiple models using AutoML Tables
- B. Automate multiple training runs using Cloud Composer
- C. Run multiple training jobs on AI Platform with similar job names
- D. Create an experiment in Kubeflow Pipelines to organize multiple runs

Answer: C

Question: 5

You work for a toy manufacturer that has been experiencing a large increase in demand. You need to build an ML model to reduce the amount of time spent by quality control inspectors checking for product defects. Faster defect detection is a priority. The factory does not have reliable Wi-Fi. Your company wants to implement the new ML model as soon as possible. Which model should you use?

- A. AutoML Vision model
- B. AutoML Vision Edge mobile-versatile-1 model
- C. AutoML Vision Edge mobile-low-latency-1 model
- D. AutoML Vision Edge mobile-high-accuracy-1 model

Answer: A

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