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## **Exam Professional Machine Learning Engineer All Questions**

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## EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 15 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 15

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have been asked to develop an input pipeline for an ML training model that processes images from disparate sources at a low latency. You discover that your input data does not fit in memory. How should you create a dataset following Google-recommended best practices?

- A. Create a tf.data.Dataset.prefetch transformation.
- B. Convert the images to tf.Tensor objects, and then run Dataset.from\_tensor\_slices().
- C. Convert the images to tf.Tensor objects, and then run tf.data.Dataset.from\_tensors().
- D. Convert the images into TFRecords, store the images in Cloud Storage, and then use the tf.data API to read the images for training.

**Show Suggested Answer** 

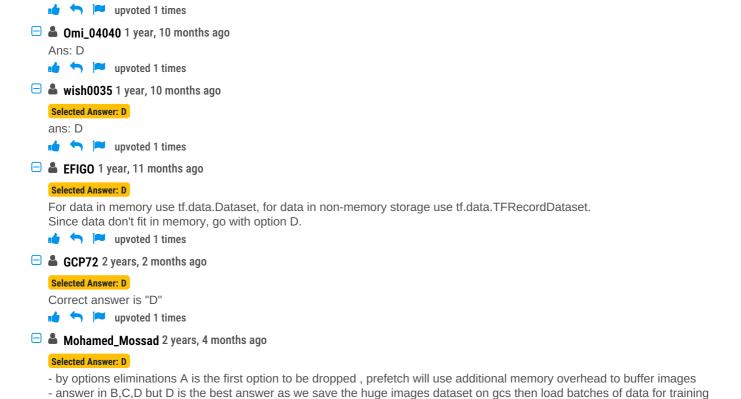
by A inder0007 at June 5, 2021, 9:01 p.m.

## **Comments**

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| Chohan Highly Voted of 3 years, 4 months ago Should be D upvoted 19 times  |
|--|
| alphard Highly Voted 2 years, 11 months ago My option is D.  |
| Cite from Google Pag: to construct a Dataset from data in memory, use tf.data.Dataset.from_tensors() or tf.data.Dataset.from_tensor_slices(). When input data is stored in a file (not in memory), the recommended TFRecord format, you can use tf.data.TFRecordDataset().   |
| tf.data.Dataset is for data in memory.  tf.data.TFRecordDataset is for data in non-memory storage.   |
| A PhilipKoku Most Recent ② 5 months ago  |
| Selected Answer: D  D) Storing images in TFRecords optimises storage for images.   |
| pinimichele01 6 months, 3 weeks ago  |
| Selected Answer: D  tf.data.Dataset is for data in memory.  tf.data.TFRecordDataset is for data in non-memory storage.   □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □   |
| samratashok 8 months ago   |
| Selected Answer: D  why this website shows wrong option as answer, this is my observation from so many questions?  upvoted 3 times   |
| fragkris 11 months, 1 week ago   |
| Selected Answer: D  D is correct   |
| ♣ Sum_Sum 11 months, 3 weeks ago   |
| Selected Answer: D  D because:  tf.data.Dataset is for data in memory.  tf.data.TFRecordDataset is for data in non-memory storage.  with the provided 2 times  |
| ♣ boobyg1 1 year ago   |
| Selected Answer: D  all "correct" answers are wrong  upvoted 2 times   |
| M25 1 year, 6 months ago   |
| Selected Answer: D  Went with D  |
| ♣ India_willsmith 1 year, 7 months ago For all questions the given answers and voted answers are different. Which one should be considered for exam? ♠ > □ upvoted 2 times   |
| ☐ ♣ Alfredo_OSS 1 year, 6 months ago You should consider the voted ones.   |
| enghabeth 1 year, 9 months ago   |
| Selected Answer: D   |
| Converting your data into TFRecord has many advantages, such as: More efficient storage: the TFRecord data can take up less space than the original data; it can also be partitioned into multiple files. Fast I/O: the TFRecord format can be read with parallel I/O operations, which is useful for TPUs or multiple hosts |
| A prohabeth 1 year 9 months and  |



- B,C not good as they did not provide a solution to images are not fit in memory

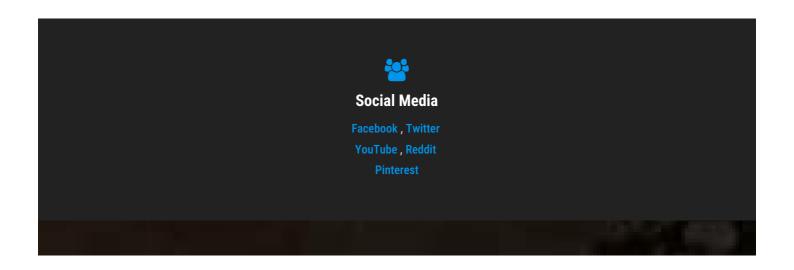
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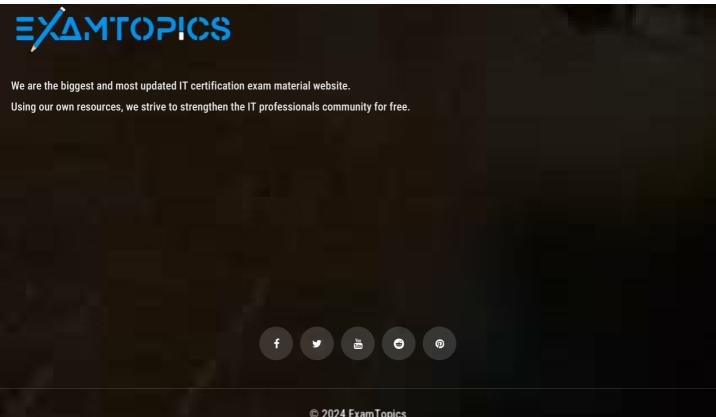
upvoted 2 times

- ciiyilabetii i year, 2 montha ayo

Selected Answer: D
my option is D

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