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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

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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  [inder0007](#) at June 5, 2021, 9:01 p.m.

Comments

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  **chohan** Highly Voted  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.

   upvoted 14 times

  **PhilipKoku** Most Recent  5 months ago

Selected Answer: D

D) Storing images in TFRecords optimises storage for images.

   upvoted 2 times

  **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.

   upvoted 1 times

  **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

   upvoted 1 times

  **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.

   upvoted 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

   upvoted 1 times

  **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.

   upvoted 2 times

  **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

   upvoted 1 times

  **enghabeth** 1 year, 9 months ago

— **engnabeur** 1 year, 2 months ago

Selected Answer: D

my option is D

   upvoted 1 times

 **Omi_04040** 1 year, 10 months ago

Ans: D


   upvoted 1 times

 **wish0035** 1 year, 10 months ago

Selected Answer: D

ans: D


   upvoted 1 times

 **EFIGO** 1 year, 11 months ago

Selected Answer: D

For data in memory use `tf.data.Dataset`, for data in non-memory storage use `tf.data.TFRecordDataset`. Since data don't fit in memory, go with option D.

   upvoted 1 times

 **GCP72** 2 years, 2 months ago

Selected Answer: D

Correct answer is "D"

   upvoted 1 times

 **Mohamed_Mossad** 2 years, 4 months ago

Selected Answer: D

- by options eliminations A is the first option to be dropped , prefetch will use additional memory overhead to buffer images
- answer in B,C,D but D is the best answer as we save the huge images dataset on gcs then load batches of data for training
- B,C not good as they did not provide a solution to images are not fit in memory

   upvoted 2 times

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