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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 77 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 77

Topic #: 1

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You need to execute a batch prediction on 100 million records in a BigQuery table with a custom TensorFlow DNN regressor model, and then store the predicted results in a BigQuery table. You want to minimize the effort required to build this inference pipeline. What should you do?

- A. Import the TensorFlow model with BigQuery ML, and run the ml.predict function.
- B. Use the TensorFlow BigQuery reader to load the data, and use the BigQuery API to write the results to BigQuery.
- C. Create a Dataflow pipeline to convert the data in BigQuery to TFRecords. Run a batch inference on Vertex AI Prediction, and write the results to BigQuery.
- D. Load the TensorFlow SavedModel in a Dataflow pipeline. Use the BigQuery I/O connector with a custom function to perform the inference within the pipeline, and write the results to BigQuery.

Show Suggested Answer

by [LearnSodas](#) at Dec. 11, 2022, 4:54 p.m.

Comments

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🗄️ 👤 **hiromi** Highly Voted 👍 1 year, 10 months ago

Selected Answer: A

A should work with less effort

- <https://cloud.google.com/bigquery-ml/docs/making-predictions-with-imported-tensorflow-models#api>

- <https://towardsdatascience.com/how-to-do-batch-predictions-of-tensorflow-models-directly-in-bigquery-ffa843ebdba6>

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🗄️ 👤 **livewalk** Most Recent 🕒 4 months, 2 weeks ago

Selected Answer: D

BigQuery ML might not support custom TensorFlow DNN models directly.

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🗄️ 👤 **etienne0** 7 months, 3 weeks ago

Selected Answer: C

Went with C

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **pawan94** 9 months, 2 weeks ago

Simplest doesn't mean it is the most efficient/optimal. If I follow the Best practices offered by Google for Serving / Inference Pipeline I would go with Vertex AI predictions. Read More for correct details : <https://cloud.google.com/architecture/ml-on-gcp-best-practices#machine-learning-development>

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 **etienne0** 7 months, 3 weeks ago

Agreed, i'll also go with C.

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **M25** 1 year, 5 months ago

Selected Answer: A

Went with A

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🗄️ 👤 **JamesDoe** 1 year, 6 months ago

Selected Answer: A

<https://cloud.google.com/bigquery-ml/docs/making-predictions-with-imported-tensorflow-models>

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🗄️ 👤 **enghabeth** 1 year, 8 months ago

Selected Answer: A

for this:

<https://cloud.google.com/bigquery-ml/docs/reference/standard-sql/bigqueryml-syntax-inference-overview>

Predict the label, either a numerical value for regression tasks or a categorical value for classification tasks on DNN regression

👍 ↩ 🚩 upvoted 2 times

🗄️ 👤 **ares81** 1 year, 10 months ago

ml.predict: <https://cloud.google.com/bigquery-ml/docs/making-predictions-with-imported-tensorflow-models#api> --> A

👍 ↩ 🚩 upvoted 1 times

🗄️ 👤 **LearnSodas** 1 year, 10 months ago

Selected Answer: A

Answer A as the simplest

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