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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

[All Professional Machine Learning Engineer Questions]

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

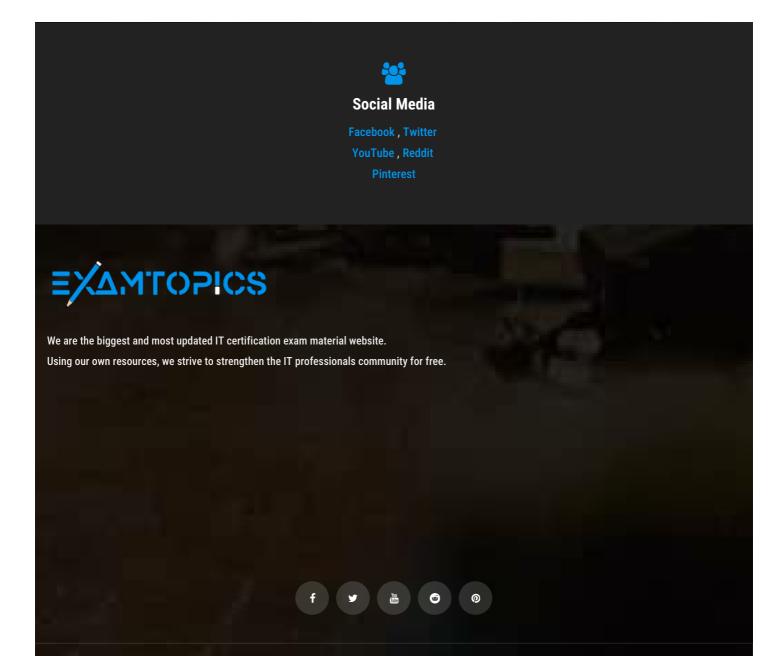
by & LearnSodas at Dec. 11, 2022, 4:54 p.m.

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 ■ hiromi
 Highly Voted of 1 year, 10 months ago
Selected Answer: A A should work with less effort - https://cloud.google.com/bigguery-ml/docs/making-predictions-with-imported-tensorflow-models#api - https://towardsdatascience.com/how-to-do-batch-predictions-of-tensorflow-models-directly-in-bigguery-ffa843ebdba6 upvoted 10 times ☐ ♣ livewalk Most Recent ② 4 months, 2 weeks ago Selected Answer: D BigQuery ML might not support custom TensorFlow DNN models directly. upvoted 1 times etienne0 7 months, 3 weeks ago Selected Answer: C Went with C upvoted 1 times awan94 9 months, 2 weeks ago Simplest doesn't mean it is the most effecient/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-ongcp-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 upvoted 2 times ■ JamesDoe 1 year, 6 months ago Selected Answer: A https://cloud.google.com/bigguery-ml/docs/making-predictions-with-imported-tensorflow-models upvoted 2 times 🖃 🏜 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 regresion 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 upvoted 1 times



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