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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 246 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 246

Topic #: 1

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You recently used BigQuery ML to train an AutoML regression model. You shared results with your team and received positive feedback. You need to deploy your model for online prediction as quickly as possible. What should you do?

- A. Retrain the model by using BigQuery ML, and specify Vertex AI as the model registry. Deploy the model from Vertex AI Model Registry to a Vertex AI endpoint,
- B. Retrain the model by using Vertex AI Deploy the model from Vertex AI Model. Registry to a Vertex AI endpoint.
- C. Alter the model by using BigQuery ML, and specify Vertex AI as the model registry. Deploy the model from Vertex AI Model Registry to a Vertex AI endpoint.
- D. Export the model from BigQuery ML to Cloud Storage. Import the model into Vertex AI Model Registry. Deploy the model to a Vertex AI endpoint.

Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 9:16 a.m.

Comments

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  **pikachu007** Highly Voted  9 months, 1 week ago

Selected Answer: D



I think it's D, as model retraining should not be required unless it's specified there's new data.

   upvoted 7 times

  **shadz10** 9 months, 1 week ago

I agree with pikachu007



   upvoted 2 times

  **vaibavi** 8 months, 3 weeks ago

I think it's C

Exported models for model types AUTOML_REGRESSOR and AUTOML_CLASSIFIER do not support AI Platform deployment for online prediction.

   upvoted 4 times

  **daidai75** 9 months ago




Agree with Pikachu007, the option D is good.

   upvoted 1 times

  **Dagogi96** 9 months ago

Friend is the C, and with Alter MODEL you can register the model in Vertex AI, I work in a company and I myself have registered models like this.

   upvoted 6 times

  **hybridpro** Most Recent  3 weeks, 4 days ago

Selected Answer: C

It's C

   upvoted 1 times

  **d6e1ae4** 2 months ago

Selected Answer: D

The model has already been trained and received positive feedback, so there's no need to retrain the model.

   upvoted 1 times

  **AzureDP900** 3 months, 2 weeks ago

C is correct Here's why:

1) You trained an AutoML regression model using BigQuery ML.

2) To deploy the model for online prediction, you need to export the model in a format that is compatible with Vertex AI.

3) Altering the model by using BigQuery ML and specifying Vertex AI as the model registry allows you to export the model in the correct format.

Once exported, you can deploy the model from Vertex AI Model Registry to a Vertex AI endpoint, which enables online prediction

   upvoted 1 times

  **AzureDP900** 3 months, 2 weeks ago

C is correct Here's why:



1) You trained an AutoML regression model using BigQuery ML.

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   upvoted 1 times

  **cruise93** 6 months ago

Selected Answer: C

https://cloud.google.com/bigquery/docs/reference/standard-sql/bigqueryml-syntax-alter-model#alter_model_statement

   upvoted 4 times

  **gscharly** 6 months ago

Selected Answer: C

<https://cloud.google.com/vertex-ai/docs/model-registry/model-registry-bqml>

https://cloud.google.com/bigquery/docs/update_vertex

   upvoted 3 times

  **fitri001** 6 months, 1 week ago

Selected Answer: D

You successfully used BigQuery ML to train an AutoML regression model. You shared results with your team and received

You recently used BigQuery ML to train an AutoML regression model. You shared results with your team and received positive feedback. You need to deploy your model for online prediction as quickly as possible. What should you do?

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👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 **fitri001** 6 months, 1 week ago

No Retraining: You've already trained a successful model in BigQuery ML. Retraining (Options A, B, and C) is unnecessary and adds time.

Direct Deployment: Option D leverages existing tools for streamlined deployment. You export the model directly from BigQuery ML and import it into Vertex AI Model Registry for centralized management. Finally, you deploy the model to a Vertex AI endpoint for online predictions.

Cloud Storage: Cloud Storage provides a readily accessible location to store your exported model before deployment.

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **pinimichele01** 6 months ago

alter the model doesn't mean retrain...

👍 ↩ 🚩 upvoted 3 times

🗨️ 👤 **omermahgoub** 6 months, 1 week ago

Selected Answer: D

D. Export the model from BigQuery ML to Cloud Storage. Import the model into Vertex AI Model Registry. Deploy the model to a Vertex AI endpoint.

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🗨️ 👤 **pinimichele01** 6 months, 1 week ago

why not C? it is not necessary to export in GCS

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **omermahgoub** 6 months ago

I changed my answer to C. GCS is not necessary

👍 ↩ 🚩 upvoted 2 times

🗨️ 👤 **playerXL7** 6 months, 1 week ago

Selected Answer: C

<https://cloud.google.com/vertex-ai/docs/model-registry/model-registry-bqml>

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **alfieroy16** 7 months ago

Selected Answer: C

Alter the model is correct, no need to export the model : "You can register BigQuery ML models with the Model Registry, in order to manage them alongside your other ML models without needing to export them"

<https://cloud.google.com/bigquery/docs/managing-models-vertex>

a simple update is sufficient :

https://cloud.google.com/bigquery/docs/update_vertex

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **vaibavi** 8 months, 2 weeks ago

Selected Answer: B

I think the answer here is B, because even if we alter or export automl regressor model trained in BQML is not supported in vertex ai for online prediction so we need to retrain using vertex ai

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **itwiz** 8 months, 3 weeks ago

C)

https://cloud.google.com/bigquery/docs/create_vertex

👍 ↩ 🚩 upvoted 1 times

🗨️ 👤 **sonicclasps** 8 months, 3 weeks ago

Selected Answer: C

the answer is C, no need to export the model : "You can register BigQuery ML models with the Model Registry, in order to manage them alongside your other ML models without needing to export them"

<https://cloud.google.com/bigquery/docs/managing-models-vertex>

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   upvoted 4 times

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