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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 102 DISCUSSI...**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 102
Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have successfully deployed to production a large and complex TensorFlow model trained on tabular data. You want to predict the lifetime value (LTV) field for each subscription stored in the BigQuery table named subscription. subscriptionPurchase in the project named my-fortune500-company-project.

You have organized all your training code, from preprocessing data from the BigQuery table up to deploying the validated model to the Vertex AI endpoint, into a TensorFlow Extended (TFX) pipeline. You want to prevent prediction drift, i.e., a situation when a feature data distribution in production changes significantly over time. What should you do?

A. Implement continuous retraining of the model daily using Vertex AI Pipelines.

B. Add a model monitoring job where 10% of incoming predictions are sampled 24 hours.

C. Add a model monitoring job where 90% of incoming predictions are sampled 24 hours.

D. Add a model monitoring job where 10% of incoming predictions are sampled every hour.

Show Suggested Answer

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by 👤 hiromi at *Dec. 20, 2022, 11:36 a.m.*

Comments

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smaller fraction can help filter out noise and focus on the most relevant information.

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pico 11 months, 3 weeks ago

Neither B,C or D have a step to prevent the prediction drift.

The question says: "you want to prevent prediction drift"

👍 ↩ 🏳 upvoted 1 times

TNT87 1 year, 8 months ago

Selected Answer: B

Answer B

👍 ↩ 🏳 upvoted 1 times

John_Pongthorn 1 year, 9 months ago

Selected Answer: B

B , I got it from Machine Learning in the Enterprise course for google partnet skillboost
you can watch cafully on video "Model management using Vertex AI"
I imply that it is default setting on typical case.

👍 ↩ 🏳 upvoted 3 times

behzadsw 1 year, 10 months ago

Selected Answer: D

Using 10% of hourly requests would yield a better distribution and faster feed back loop

👍 ↩ 🏳 upvoted 1 times

hargur 1 year, 10 months ago

I think it is B, we can say 10% to be a sample but not 90%

👍 ↩ 🏳 upvoted 2 times

mymy9418 1 year, 10 months ago

Selected Answer: B

I guess 10% of 24 hours should be good enough?

👍 ↩ 🏳 upvoted 3 times

hiromi 1 year, 10 months ago

Selected Answer: B

B (not sure)
- https://cloud.google.com/vertex-ai/docs/model-monitoring/overview
- https://cloud.google.com/vertex-ai/docs/model-monitoring/using-model-monitoring#drift-detection

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