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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 247 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 247

Topic #: 1

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You built a deep learning-based image classification model by using on-premises data. You want to use Vertex AI to deploy the model to production. Due to security concerns, you cannot move your data to the cloud. You are aware that the input data distribution might change over time. You need to detect model performance changes in production. What should you do?

- A. Use Vertex Explainable AI for model explainability. Configure feature-based explanations.
- B. Use Vertex Explainable AI for model explainability. Configure example-based explanations.
- C. Create a Vertex AI Model Monitoring job. Enable training-serving skew detection for your model.
- D. Create a Vertex AI Model Monitoring job. Enable feature attribution skew and drift detection for your model.

Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 9:19 a.m.

Comments

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[b1a8fae](#) [Highly Voted](#) 9 months, 2 weeks ago

Selected Answer: D

D. You want to control how much the distribution of the data changes over time -> that's drift.


   upvoted 7 times

  **gscharly** **Most Recent**  6 months, 2 weeks ago

Selected Answer: D

D, as the training data is not available

   upvoted 2 times

  **fitri001** 6 months, 3 weeks ago

Selected Answer: D

Security: Vertex AI Model Monitoring doesn't require uploading your training data to the cloud. It analyzes model predictions and input features on your on-premises server.

Data Distribution Shifts: Feature attribution techniques like LIME or SHAP within Vertex AI Model Monitoring can identify how different features contribute to model predictions. Detecting drifts in these feature attributions can indicate changes in the underlying data distribution compared to the training data.

   upvoted 1 times

  **omermahgoub** 6 months, 3 weeks ago

Selected Answer: C

Feature Attribution Skew and Drift Detection, this type of monitoring is useful in some cases, it requires access to the training and serving data for analysis. Since data cannot move to the cloud, Option D wouldn't be feasible.

I vote for C. Create a Vertex AI Model Monitoring job. Enable training-serving skew detection for your model.

   upvoted 1 times

  **omermahgoub** 6 months, 2 weeks ago

I changed my answer to D

   upvoted 2 times

  **pinimichele01** 7 months ago

Selected Answer: D

the answer cannot be C, cause your training data is not available in production.

   upvoted 1 times

  **sonicclasps** 9 months, 1 week ago

Selected Answer: D

the answer cannot be C, cause your training data is not available in production.
So D is the only viable answer

   upvoted 4 times

  **pikachu007** 9 months, 3 weeks ago

Selected Answer: C

Option A and B: Vertex Explainable AI provides insights into model behavior but doesn't directly detect performance changes or concept drift. It's more suitable for understanding model decisions, not monitoring production performance.

Option D: Feature attribution skew and drift detection requires feature attributions calculated during training, which might not be feasible without cloud access to the data.

   upvoted 1 times



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