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## Exam Professional Machine Learning Engineer All Questions

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### EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 227 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 227

Topic #: 1

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You work at a bank. You need to develop a credit risk model to support loan application decisions. You decide to implement the model by using a neural network in TensorFlow. Due to regulatory requirements, you need to be able to explain the model's predictions based on its features. When the model is deployed, you also want to monitor the model's performance over time. You decided to use Vertex AI for both model development and deployment. What should you do?

- A. Use Vertex Explainable AI with the sampled Shapley method, and enable Vertex AI Model Monitoring to check for feature distribution drift.
- B. Use Vertex Explainable AI with the sampled Shapley method, and enable Vertex AI Model Monitoring to check for feature distribution skew.
- C. Use Vertex Explainable AI with the XRAI method, and enable Vertex AI Model Monitoring to check for feature distribution drift.
- D. Use Vertex Explainable AI with the XRAI method, and enable Vertex AI Model Monitoring to check for feature distribution skew.

Show Suggested Answer

by [winston9](#) at Jan. 10, 2024, 9:41 a.m.

## Comments

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  **b1a8fae** Highly Voted  9 months, 3 weeks ago

**Selected Answer: A**

Not image -> not XRAI

Performance over time -> drift, not skew

   upvoted 8 times

  **fitri001** Most Recent  6 months, 3 weeks ago



**Selected Answer: A**

why not the others?

B. Feature Distribution Skew: While skew can be relevant, drift is generally a more significant concern for credit risk models. Drift indicates a change in the underlying data distribution, potentially impacting model performance.

C & D. XRAI Method: XRAI (Explainable AI for Images) is specifically designed for interpreting image classification models. It wouldn't be the most effective choice for a neural network-based credit risk model working with tabular data.



   upvoted 2 times

  **fitri001** 6 months, 3 weeks ago

Vertex Explainable AI: This is a built-in Vertex AI feature that helps understand how features contribute to model predictions.

Sampled Shapley Method: This is a well-suited method for explaining complex models like neural networks. It provides insights into feature importance without requiring retraining the entire model.

   upvoted 1 times

  **winston9** 10 months ago

**Selected Answer: A**

Explainable AI with the XRAI method is for unstructured, image region analysis, in this case we use structured data for loan approval analysis.

   upvoted 2 times

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