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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 270 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 270

Topic #: 1

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You are developing an ML model in a Vertex AI Workbench notebook. You want to track artifacts and compare models during experimentation using different approaches. You need to rapidly and easily transition successful experiments to production as you iterate on your model implementation. What should you do?

- A. 1. Initialize the Vertex SDK with the name of your experiment. Log parameters and metrics for each experiment, and attach dataset and model artifacts as inputs and outputs to each execution.
2. After a successful experiment create a Vertex AI pipeline.
- B. 1. Initialize the Vertex SDK with the name of your experiment. Log parameters and metrics for each experiment, save your dataset to a Cloud Storage bucket, and upload the models to Vertex AI Model Registry.
2. After a successful experiment, create a Vertex AI pipeline.
- C. 1. Create a Vertex AI pipeline with parameters you want to track as arguments to your PipelineJob. Use the Metrics, Model, and Dataset artifact types from the Kubeflow Pipelines DSL as the inputs and outputs of the components in your pipeline.
2. Associate the pipeline with your experiment when you submit the job.
- D. 1. Create a Vertex AI pipeline. Use the Dataset and Model artifact types from the Kubeflow Pipelines DSL as the inputs and outputs of the components in your pipeline.
2. In your training component, use the Vertex AI SDK to create an experiment run. Configure the log_params and log_metrics functions to track parameters and metrics of your experiment.

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Comments

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  **AzureDP900** 3 months, 2 weeks ago

Option A correctly describes how to rapidly and easily transition successful experiments to production by initializing the Vertex SDK with the experiment name, logging parameters and metrics, and attaching dataset and model artifacts. The second step of creating a Vertex AI pipeline after a successful experiment allows for easy iteration on the model implementation while maintaining track of the experiment's performance.

   upvoted 1 times

  **bobjr** 4 months, 2 weeks ago

Selected Answer: B

Answer B leverages more tools for responsibility splitting : they are still tools for early experiments, but would help in the pipeline creation.

C & D are overkill

   upvoted 2 times

  **guilhermebutzke** 8 months, 1 week ago

Selected Answer: A



I agree with these comments

>> I will go for A, because the requirement is "rapidly and easily"

>> B: Manually saving datasets and models to Cloud Storage and Model Registry introduces extra steps and potential for inconsistencies.

>> Options C and D: Prioritizing pipeline creation limits flexibility and visibility during the experimentation phase, making it harder to track artifacts and compare models effectively.

   upvoted 4 times

  **daidai75** 9 months ago

Selected Answer: A

I will go for A, because the requirement is "rapidly and easily" transition successful experiments to production. Option B,C,D are too complex to conduct.


   upvoted 3 times

  **b1a8fae** 9 months ago

Selected Answer: A

I believe is A for the same reasons that pikachu.

   upvoted 2 times

  **pikachu007** 9 months, 1 week ago

Selected Answer: A

Option B: Manually saving datasets and models to Cloud Storage and Model Registry introduces extra steps and potential for inconsistencies.

Options C and D: Prioritizing pipeline creation limits flexibility and visibility during the experimentation phase, making it harder to track artifacts and compare models effectively.

   upvoted 4 times

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