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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 242 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 242

Topic #: 1

[All Professional Machine Learning Engineer Questions]

Your team is training a large number of ML models that use different algorithms, parameters, and datasets. Some models are trained in Vertex AI Pipelines, and some are trained on Vertex AI Workbench notebook instances. Your team wants to compare the performance of the models across both services. You want to minimize the effort required to store the parameters and metrics. What should you do?

- A. Implement an additional step for all the models running in pipelines and notebooks to export parameters and metrics to BigQuery.
- B. Create a Vertex AI experiment. Submit all the pipelines as experiment runs. For models trained on notebooks log parameters and metrics by using the Vertex AI SDK.
- C. Implement all models in Vertex AI Pipelines Create a Vertex AI experiment, and associate all pipeline runs with that experiment.
- D. Store all model parameters and metrics as model metadata by using the Vertex AI Metadata API.

Show Suggested Answer

by Apikachu007 at Jan. 13, 2024, 9:06 a.m.

Comments

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🖃 🏜 fitri001 6 months, 3 weeks ago

Selected Answer: B

Why B?

Centralized Tracking: Vertex AI Experiments provides a central location to track and compare models trained in both pipelines and notebooks.

Reduced Overhead: Submitting pipelines as experiment runs leverages the existing pipeline infrastructure for logging and avoids creating additional pipeline steps for all models.

Notebook Integration: Vertex AI SDK allows notebooks to log parameters and metrics directly to the experiment, simplifying data collection from notebooks.

why not C?

C. All Models in Pipelines: Moving all models to pipelines might not be feasible or desirable. Pipelines are best suited for automated, repeatable training, while notebooks offer flexibility for exploration.

upvoted 2 times

🖃 🏜 omermahgoub 6 months, 3 weeks ago

Selected Answer: B

B. Create a Vertex AI experiment. Submit all the pipelines as experiment runs. For models trained on notebooks log parameters and metrics by using the Vertex AI SDK.

upvoted 2 times

😑 🏜 quilhermebutzke 8 months, 3 weeks ago

Selected Answer: B

My Answer: B

A: Not Correct: Not the best approach compared with Vertex AI experiment that does the same

B: CORRECT: By submitting all pipelines as experiment runs, you can centralize the storage of parameters and metrics for models trained in Vertex AI Pipelines. This approach minimizes effort by providing a unified platform for storing and comparing model performance across different services.

C: Not Correct: not feasible or ideal for models trained on Vertex AI Workbench notebook instances.

D: Not Correct: If only basic parameter and metric storage is needed, and your team prioritizes simplicity over in-depth comparison, option D could be an alternative. For more complex scenarios requiring comprehensive analysis and comparison across diverse models, option B with Vertex AI Experiments

upvoted 3 times

■ b1a8fae 9 months, 2 weeks ago

Selected Answer: B

Divided between B and C. But logging parameters of models sounds easier than re-implementing a large amount of models as Vertex AI pipelines.

upvoted 3 times

□ ♣ shadz10 9 months, 3 weeks ago

Selected Answer: B

B is The correct answer here I believe -

Vertex AI experiments - provides a unified way to store and compare model runs.

pipeline runs - It provides a unified way to store and compare model runs.

notebook instances - models trained on Vertex AI Workbench notebook instances, logging parameters and metrics using the Vertex AI SDK provides a consistent way to record the necessary information.

upvoted 1 times

pikachu007 9 months, 3 weeks ago

Selected Answer: C

Options A and B: Logging metrics to BigQuery involves additional setup and integration efforts.

Option D: Loading Vertex ML Metadata into a pandas DataFrame for visualization requires manual work and doesn't leverage built-in visualization tools.

upvoted 1 times

E lipepin 8 months, 2 weeks ago

On option B there are no Logging metrics to BigQuery suggested.

Hence why B is correct.

upvoted 2 times

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